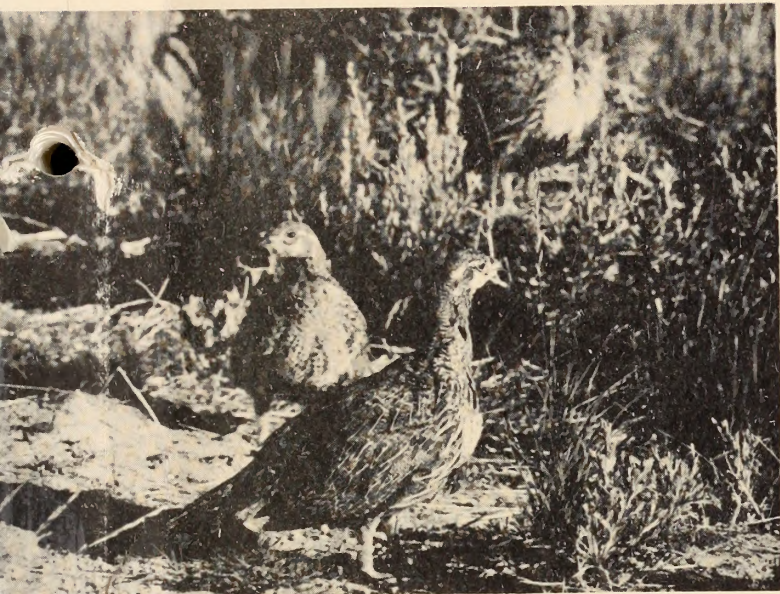




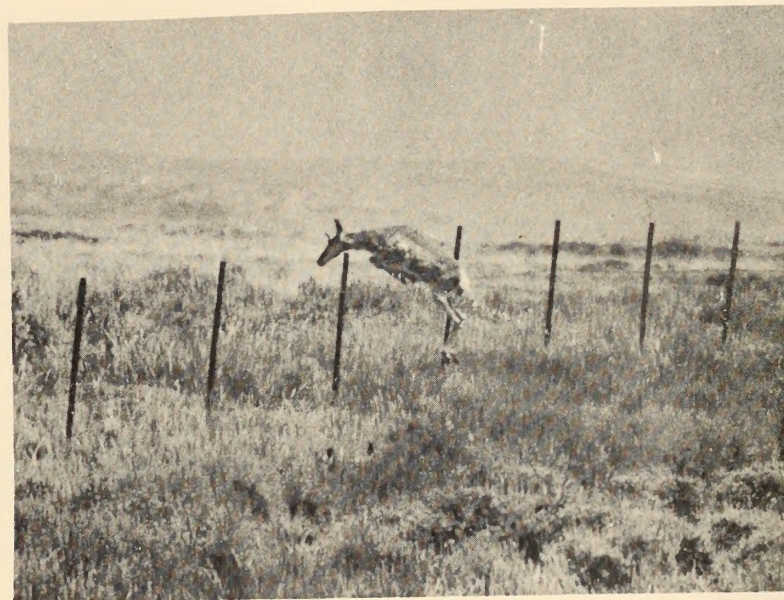
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University of Wyoming

Cooperative Research Report  
to the Bureau of Land Management

ANNUAL PROGRESS REPORT

1968



GRAZING SYSTEMS RESEARCH

Submitted by Wyoming Agricultural Experiment Station

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Influence of Grazing Management Systems  
on Vegetation and Wildlife Habitat

by

R. P. Gibbens, H. G. Fisser, and M. May<sup>1</sup>

Annual Report

of

Progress

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Roads, fences and sagebrush spraying which are part of the development accompanying initiation of the livestock grazing systems have apparently had no adverse effect on the antelope and sagegrouse found on the study site near Baggs, Wyoming. As can be seen, antelope take the fences in stride.

Published with approval of the Director, Wyoming Agricultural Experiment Station, as Scientific Report No. 179.

---

<sup>1</sup>Agriculture Research Assistant, Associate Professor, and Professor of Range Management, Range Management Section, University of Wyoming, Laramie, respectively.

# Information on Grazing Management Systems on Vegetation and Wildlife Habitat

by

K. L. Gibbons, H. G. Jansen, and M. May

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Progress

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Results, trends and associated grazing which are part of the development  
and management of the livestock grazing system have significantly  
had an adverse effect on the vegetation and associated fauna in the study  
area. However, the study area, which is the focus of  
this report.

Revised with approval of the Director, Wyoming Agricultural Experiment  
Station, on scientific report No. 119.

Approved: Kenneth A. Anderson, Assistant Professor, and Director of  
Range Management, Range Management Section, University of Wyoming,  
Laramie, Wyoming.



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## Introduction

The study of the influence of grazing systems upon vegetation and wild-life habitat was initiated in 1967 as a Wyoming Agricultural Experiment Station Cooperative Program with the Bureau of Land Management. The 68,000 acre study site is located west of Baggs, Wyoming and is divided into a four-pasture rest rotation unit, a two-pasture rotation unit and a one-pasture season-long unit. A general description of the research program and study area is presented in the 1968 Annual Report.<sup>1/</sup> A map of the pasture units with a recently revised grazing schedule is presented in Figure 1.

## Methods and Procedures

Vegetative cover determinations were made on pasture trend study transects of permanent plots established in each grazing unit during 1967. Detailed procedures for this sampling have been presented previously.<sup>2/</sup> The location and description of the sampling sites and numbers of adjacent BLM trend plots are presented in Table I. A sampling site was established in close proximity to each BLM plot because comparison of trend evaluation methods is one basic objective of the study.

Combination belt, line-point and permanent plot transects were established inside and outside of two 1-acre game and livestock exclosures and one livestock-only exclosure which were completed too late for sampling during the 1967 season. The other five exclosures were sampled both in 1967 and 1968.

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<sup>1/</sup> Gibbens, R. P., H. G. Fisser, and M. May. 1968. Grazing Systems Research. Wyom. Agr. Exp. Sta. Sci. Report No. 102.

<sup>2/</sup> Fisser, Herbert G. 1967. Exclosure study with transects of permanent plots-1967 data. Wyom. Agr. Exp. Sta. Sci. Report No. 118.





Utilization of the key forage species, western wheatgrass, was determined by the stem count method. Counts of grazed and ungrazed stems were made in 20 sq. ft. plots spaced along paced transects at each sampling site in grazed pastures. Utilization of shrubs and grasses other than western wheatgrass contained in the plots was estimated. These estimates were divided into the following percentage utilization classes: 0-10; 11-20; 21-30; 31-40; 41-60; 61-80; 81-100. An average utilization figure for each site was obtained by multiplying the class midpoint times the class frequency and dividing the sum of all classes by the frequency of occurrence of the species in question. For utilization determinations made in spring a shrub of the locally prevailing species closest to the sampling point was examined if none fell within the sq. ft. plot.

#### Plant Identification

During the 1967 and 1968 seasons special effort was made to collect specimens of plants occurring on the study area. These were identified and verified using the collections in the Rocky Mountain Herbarium at the University of Wyoming. A checklist of the 223 species showing varieties and grouped by families is included as Appendix A. Four species had not been reported previously for Wyoming.

Another list of the plants, grouped according to life form and showing the codes used in recording and presenting data is provided in Appendix B. This list does not include all of the varieties contained in the checklist. Field identification of many varietal forms was found to be difficult and uncertain, also varietal identifications usually contribute little to ecological understanding. Consequently, codes are provided only for those taxa which are distinguishable under field conditions.





### Forage Utilization

To facilitate future analysis of data all of the utilization determinations made to date have been summarized and are presented in Tables 2, 3, 4 & 5. The 1967 data has been reported previously but is included for comparative purposes.

Following winter sheep use in 1967-68 on rest-rotation pastures A, B, C and D, average utilization of big basin sagebrush ranged from 9 to 17%. Nuttall saltbush was browsed fairly heavily by sheep and the average utilization ranged from 15 to 51%. Sheep use extended through May in pastures A and D and 12 and 27%, respectively, of new shoots of western wheatgrass were grazed. Utilization of dry grass residues could not be measured objectively but subjective estimates placed use of this forage as light to moderate in all pastures. In general, forage utilization by sheep was far from uniform, ranging from none to heavy within individual pastures.

While resident deer are not numerous there is a considerable influx of migratory animals in winter. Sheep and game use of big basin sagebrush could not be separated. However, in areas believed not to have been used by sheep the utilization of big basin sagebrush averaged 18%. Deer use of true mountain-mahogany ranged from 86% in areas of high concentration to 51% in less densely populated areas (Table 6). As much as 93% of current twig growth was removed from individual bushes. When browsed, use of common bitterbrush ranged from 20 to 72% on individual bushes.

Five pastures were grazed by cattle during the summer of 1968. Average utilization of western wheatgrass was as follows: Poison Buttes (season-long use), 48%; Oppenhiemer East (early-season use), 48%; Oppenhiemer West (late-season use), 53%; Pasture B (season-long use), 43%; Pasture C (late-season use),





37%. While indian ricegrass and needleandthread are not very abundant these species are frequently preferred by cattle and grazed quite heavily (Tables 3 & 5). Nuttall saltbush was the only shrub browsed to a significant extent by cattle. In one area 43% of the current growth of Nuttall saltbush was utilized. In the Oppenhiemer West pasture not all cattle were removed at the end of the grazing period. Utilization checks at several of the sampling sites on 24 Sept. and at the same sites on 26 Oct. revealed that utilization of western wheatgrass increased as much as 29% due to the holdover of animals.

#### Precipitation Records

Precipitation records, as determined from 17 gauges distributed over the study area, are presented in Table 7. While the time span for the records is short, it is readily apparent that the study area receives relatively low rainfall. Between 14 Oct. 1967 and 12 Oct. 1968 the yearly total was 8.38 inches.

Since most of the pastures have small reservoirs dependent upon surface runoff, the intensity and distribution of summer rains has a marked influence upon grazing patterns. It was noted during the summer of 1968, when little runoff occurred, that cattle were traveling up to 2.5 miles for water in Pasture B. A local shower which filled reservoirs in the SW corner of Pasture B caused a marked shift in cattle use and resulted in very heavy use of a Nuttall saltbush flat which had been grazed lightly by cattle in 1967.

#### Vegetative Cover and Composition

The eight 1-acre exclosures which were constructed during 1967, two of which exclude both game and livestock, have all been provided with permanent transects to follow changes in vegetative cover and composition due to exclusion of grazing. Exclosure locations, transect location maps and data





summaries for all paired transects located inside and outside of the exclosures are included in Appendix C. Insufficient time has elapsed for the detection of any significant changes in vegetation.

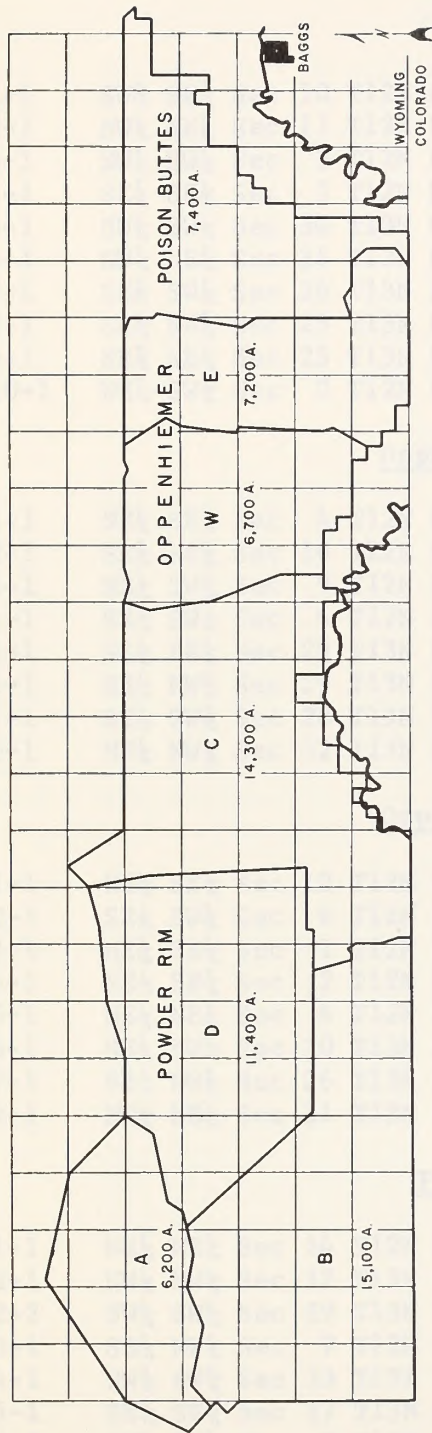
All of the 20-plot permanent transects established in 1967 were resampled in 1968. Both the 1967 and 1968 data have been summarized by transect and are presented in table form in Appendix D. The 1967 data was held over to permit verification of plant identification and standardization of codes. While differences in percentage composition and cover occur between the two years on a given site, the differences are not large for the major forage producing species. The most noticeable difference in vegetation between the 1967 and 1968 seasons was the scarcity of annuals in 1968. The relatively high rainfall which prevailed in early spring 1967 was conducive to germination and growth of annuals. In comparison, the spring of 1968 was dry and the abundance of sixweeks fescue, cheatgrass brome and annual forbs was greatly reduced.

#### Wildlife Observations

The maximum number of antelope observed on the study area in a given day during the summer of 1968 was 61 animals. A group of six antelope moved into the Poison Buttes allotment and spent the entire summer there. No animals were observed in this pasture during 1967. Antelope were most numerous in Pastures A, C, D and B. The Oppenhiemer Allotment does not have a resident group of antelope and rarely are antelope seen there. Deer, presumed to be resident, were observed in all pastures at various times during the summer. Sagegrouse were quite numerous and were seen in considerable numbers in both sprayed and non-sprayed areas.







# GRAZING SCHEDULES

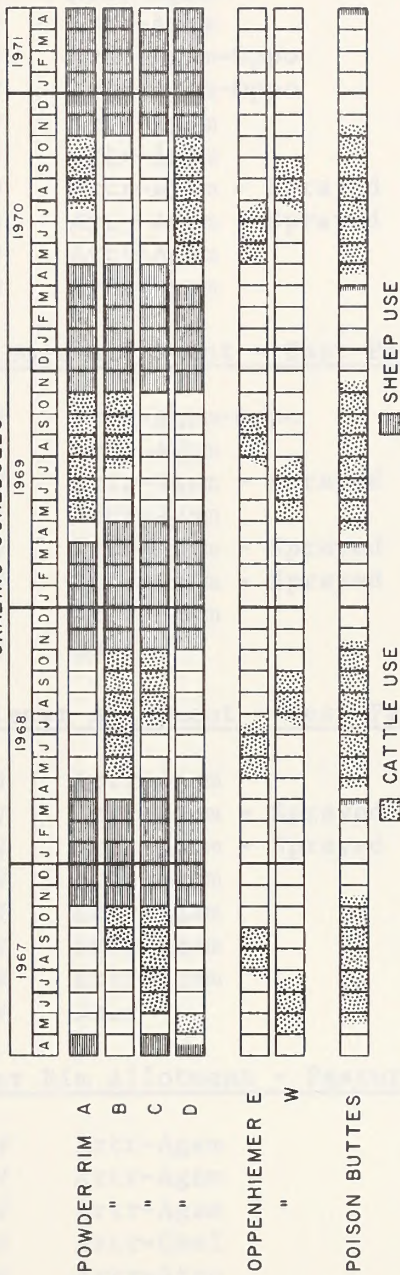


Figure 1. Map of the Baggs study area showing grazing units and approximate acreages. Grazing schedules for each unit are shown in the diagram below. The grazing schedule for the rest-rotation system in the Powder Rim allotment was adjusted to permit a more equitable distribution of forage among the operators. This change became effective on May 1, 1968 and grazing will follow the indicated pattern.





Table 1. Sampling Sites 1' x 1' Permanent Plot Transects.

Site No.	Location	Vegetation Type	Exposure	Slope (Degrees)	Paired With BLM Plot No.
<u>Poison Buttes Allotment</u>					
C1-1	SW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec 10 T12N R92W	Artr-Agsm	NE	2	
C2-1	NW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 11 T12N R92W	Artr-Agsm	W	3	
C3-1	NW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec 3 T12N R92W	Artr-Agsm-Oppo	SW	3	
C4-1	SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec 3 T12N R92W	Artr-Agsm-Oppo	W	3.5	2
C5-1	SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec 34 T13N R92W	Artr-Agsm	E	0.5	
C6-1	NW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 34 T13N R92W	Artr-Agsm	E	0.5	
C7-1	SE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec 26 T13N R92W	Artr-Agsm - Sprayed	N	2	
C8-1	SE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 25 T13N R92W	Artr-Agsm - Sprayed	NE	0.5	3
C9-1	SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec 25 T13N R92W	Artr-Agsm	N	1	1
C10-1	NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec 2 T12N R92W	Artr-Agsm	SE	3	4
<u>Oppenhiemer Allotment - East Pasture</u>					
C1-1	NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec 4 T12N R92W	Artr-Agsm-Oppo	SW	3	
C2-1	SE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 16 T12N R92W	Artr-Agsm	SW	3	3
C3-1	NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec 9 T12N R92W	Artr-Agsm - Sprayed	N	3	
C4-1	SE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec 4 T12N R92W	Artr-Agsm	SW	0.5	
C5-1	SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec 29 T13N R92W	Artr-Agsm - Sprayed	NE	0.5	2
C6-1	SE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec 29 T13N R92W	Artr-Agsm - Sprayed	NNE	1.5	
C7-1	SE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec 28 T13N R92W	Artr-Agsm	E	0.25	
C8-1	NE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec 32 T13N R92W	Juos	S	10	
<u>Oppenhiemer Allotment - West Pasture</u>					
C1-1	NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec 12 T12N R93W	Artr-Agsm	SE	1	
C2-1	SE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec 6 T12N R92W	Artr-Agsm - Sprayed	NNE	2	
C3-1	NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec 1 T12N R93W	Artr-Agsm - Sprayed	N	0.25	1
C4-1	NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec 2 T12N R93W	Artr-Agsm	N	2	
C5-1	NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 6 T12N R92W	Artr-Agsm	SE	0.75	
C6-1	SE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec 30 T13N R92W	Artr-Agsm	NNE	1	4
C7-1	SE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec 26 T13N R93W	Artr-Agsm	S	1	
C9-1	NW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 31 T13N R92W	Juos	S	3-8	
<u>Powder Rim Allotment - Pasture C</u>					
C1-1	NW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 14 T12N R94W	Artr-Agsm	ENE	1.5	1
C2-1	NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec 32 T13N R93W	Artr-Agsm	SSW	2	2
C2-2	SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec 29 T13N R93W	Artr-Agsm	SSW	2.5	
C3-1	SE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec 7 T12N R93W	Artr-Cael	SSW	1	
C4-1	SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec 33 T13N R93W	Artr-Stco	S	1	
C5-1	SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec 27 T13N R93W	Artr-Stco	S	1.5	
C6-1	SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec 3 T12N R93W	Artr-Agsm	SW	4	





Table 1. (con't)

Site No.	Location	Vegetation Type	Exposure	Slope (Degrees)	Paired With BLM Plot No.
<u>Powder Rim Allotment - Pasture D</u>					
C1-1	NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 9 T12N R94W	Artr-Eula-Agsm	E	3	2
C2-1	SW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 3 T12N R94W	Artr-Agsm	S	4	
C3-1	SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec 32 T13N R94W	Artr-Agsm	ENE	1.5	
C4-1	NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec 25 T13N R94W	Save-Arsp	E	0.25	4
C5-1	NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec 29 T13N R94W	Artr-Agsm	-	0	1
C5-2	NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec 29 T13N R94W	Artr-Atga-Agsm	SW	2.25	
C6-1	NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 33 T13N R94W	Artr-Agsm	E	0.5	
C7-1	NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec 34 T13N R94W	Juos	S	5.5	
C8-1	SE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 36 T13N R95W	Atga	S	2.25	
C10-1	NW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec 26 T13N R94W	Atco	NE	2	3
<u>Powder Rim Allotment - Pasture B</u>					
C1-1	NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec 16 T12N R95W	Atga	-	0	1
C2-1	SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec 10 T12N R95W	Artr-Agsm	S	1.5	
C3-1	SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec 11 T12N R95W	Chgr-Orhy	NE	1.75	2
C4-1	NW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec 12 T12N R95W	Artr-Cafi	SSW	4	3
C5-1	SE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec 34 T13N R95W	Artr-Agsp	N	3	
C6-1	SE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec 15 T12N R95W	Artr-Agsm	NNW	0.5	
C7-1	NW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 7 T12N R94W	Arpe	W	0.5	4
C8-1	NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 4 T12N R95W	Artr-Agsm	S	3	
C9-1	SW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 16 T12N R94W	Artr-Agsm	NE	2	
C10-1	NE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec 33 T13N R95W	Artr-Agsm	SW	0.25	
<u>Powder Rim Allotment - Pasture A</u>					
C1-1	NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec 25 T13N R95W	Artr-Agsm - Sprayed	NE	2	2
C2-1	NE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec 25 T13N R95W	Artr-Agsp - Sprayed	NE	1	
C3-1	NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec 24 T13N R95W	Artr-Agsm	NE	0.5	
C4-1	SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec 13 T13N R95W	Artr-Agsm	W	1	
C4-2	SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec 13 T13N R95W	Artr-Agsm	E	2	
C5-1	NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec 28 T13N R95W	Artr-Agsm	NNW	2	1
C6-1	NW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 28 T13N R95W	Artr-Agsm	NE	2	
C7-1	NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec 34 T13N R95W	Artr-Agsp	NEE	3.5	
C8-1	SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec 29 T13N R95W	Juos	E	12	
C8-2	SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec 29 T13N R95W	Juos	W	8	





Table 2. Utilization of Key Forage Species (Agsm). Based on stem count method with counts made on 1' x 1' plots positioned along a paced transect at sampling sites. Same transect followed at each sampling time. Determinations for May 1968 were for use on new growth only.

Pasture	Grazing Period (Approximate Dates)	Date of Sampling	Percent Utilization at Sampling Sites												Avg. 1/
			C1-1	C2-1	C3-1	C4-1	C5-1	C6-1	C7-1	C8-1	C9-1	C10-1	Exc. I	Avg. 1/	
Poison Buttes	+ 1 May-31 Oct + Apr-Sheep 1 week + 1 May-31 Oct +	27-28 Oct 1967 No determinations 25-26 Oct 1968	2	13	11	20	26	22	90	98	89	12	91	58	
Oppenhiemer East	15 July-30 Sept 1 May-15 July +	27-28 Oct 1967 13 Aug 1968	77 68	39 9	55 55	39 35	13 54	56 49	35 48	X X	X X	X X	15 31	41 48	
Oppenhiemer West	1 May-15 July + 15 July-30 Sept All cattle not removed	27-28 Oct 1967 28 Sept 1968 26 Oct 1968	57 64 87	89 78 85	44 60 89	20 11 26	47 22	42 8	35 31	X X	X X	X X	49 36	49 53	
Pasture A	No use 1 Jan-30 Apr-sheep No use	1967 3 May 1968 1968	25	20	5	5	NS	NS	NS	NS	X	X	5	12	
Pasture B	1 Sept-31 Oct 1 Nov-31 Mar-sheep 1 May-31 Oct	27-28 Oct 1967 4 May 1968 25 Oct 1968	0 - -	5 0 28	2 0 57	52 0 79	- 0 2	9 0 19	54 5 74	1 5 64	43 0 66	0 0 3	78 37 85	17 43 43	
Pasture C	1 June-31 Oct 1 Nov-6 June-sheep 15 July-31 Oct	27-28 Oct 1967 4 May & 9 June '68 25 Oct 1968	52 5 35	44 5 24	20 0 52	5 0 25	25 0 26	53 0 57	X X X	X X X	X X X	X X X	82 0 27	45 41 37	
Pasture D	1 May-15 Aug 1 Nov-30 Apr-sheep No use	7 Sept 1967 4 May 1968 1968	18 13	27 32	32 13	NS 47	37 36	36 0	X X	NS 11	X X	35 40		32 27	

X = Site numbers not used

- = No Agsm included in sample

NS= No sample taken

1/Averages were calculated from total stems counted in each pasture and are not averages of the sampling site percent utilization figures.





Table 3. Percent Utilization of Grasses and Shrubs Other Than Key Forage Species (Agsm) Following Summer Grazing During 1967. The figures are average utilization values for sampling sites obtained by estimating use within seven percentage classes and dividing by frequency of occurrence. Occurrence, hence sample size, varies for species and only a rough index to utilization is obtained. Pasture D was sampled on 7 Sept. 1967, all others on 27 and 28 Oct. 1967.

Pasture	Sampling Site	Orhy	Stco	Pofe	Pose	Kocr	Agsp	Sihy	Hija	Cael	Brte	Cafi	Feoc	Spcr	Artr	Arsp	Atga	Atco	Eula	Arpe	Save
Poison Buttes (Grazed 1 May- 31 Oct)	C1-1		0		0				5	0					0						
	C2-1		0		0			0							0						
	C3-1		0		0			0		0					0						
	C4-1	0			0			0							0		0				
	C5-1	8			0			0							0						
	C6-1				0			0							0					0	
	C7-1				11				0												
	C8-1				5		5			0											
	C9-1		80		5			0	0	0					0						
	C10-1		25		0			0	0	0					0						
	Exc.I				5			0	0	0					0						
Oppenhiemer East (Grazed 15 July- 31 Sept)	C1-1		40		5					0				0							
	C2-1	5	46		0		0			0			0		0						
	C3-1				5																
	C4-1		0		0			5		0					0		0				
	C5-1				0			0							0						
	C6-1	70	70		0				0	0					0						
	C7-1	25			0			0		0					0						
	Exc.I				0				0						0					0	
	C1-1	5	0		5			0							0		0				
	C2-1			48	0			8	15	0					0						
Oppenhiemer West (Grazed 1 May- 15 July)	C3-1		23		5			7		0			0		0						
	C4-1	50			0										0				0		
	C5-1		50		0			0		0					0						
	C6-1	10	10		0			5							0		0				
	C7-1	40	10		0			0		0					0						
	Exc.I		40		0			0	5						0						
	C1-1																				
	C2-1																				





Table 3. (Continued)

Pasture	Sampling Site	Orhy	Stco	Pofe	Pose	Kocr	Agsp	Sihy	Hija	Cael	Brte	Cafi	Feoc	Spcr	Artr	Arsp	Atga	Eula	Arpe	Save
Pasture B (Grazed 1 Sept- 31 Oct)	C1-1	0			5			5									0			0
	C2-1	0	0		0										0					
	C3-1	31			0			0												
	C4-1		26		0				5			5		5	0					
	C5-1	0	0		0		0								0					
	C6-1		0		0										0					
	C7-1	27	50		5			21									5			0
	C8-1	5			0										0		0			
	C9-1	48	80		5			26							0		0			
	C10-1					0	0	0							0					
Pasture C (Grazed 1 June- 31 Oct)	Exc.I	18			5			5							0		5			
	C1-1	16			0			0							0		0			
	C2-1	5	10					5			0				0		0			
	C3-1	30	0		0			0	0						0					
	C4-1	5	6		0			5					0		0					
	C5-1	15	5		0			5							0					
	C6-1		70					0			0				0		0			
	Exc.I	0	41		5		5	5					0		0					
	C1-1	21						0							0					
	C2-1	19	40		0										0					
Pasture D (Grazed 1 May- 15 Aug)	C3-1	90	70		0			5				0			0					
	C5-1	8			0			0							0		0		5	
	C6-1	33	60		0		0	5							0					
	C10-1	24	24		0				50		0	0	0	0	0		0			





Table 4.

Percent Utilization of Grasses and Shrubs Other Than Key Forage Species (Agsm) After Winter Use During 1967-68. The figures are average utilization values for sampling sites obtained by estimating use within seven percentage classes and dividing by frequency of occurrence. For grasses, only use on new growth was estimated. For shrubs, utilization of the previous seasons growth was considered. Ten or more Artr and Atga bushes were examined at each site. Pastures were sampled on 3 and 4 May, 1968 with additional samples taken in Pasture C on 9 June 1968.

Pasture	Sampling Site	Orhy	Stco	Pofe	Pose	Kocr	Agsp	Sihy	HiJa	Cael	Brte	Artr	Arsp	Atga	Atco	Eula	Arpe
Pasture A Grazed (1 Jan-30 Apr)	C1-1		50	40	8	5		0									
	C2-1	90		33	10		7	0				20					
	C3-1	5			14		0	0				33					
	C4-1	0			0							9					
	C7-1				0	0	6					14		40			
	Exc.I	27		7	0	5	5	0				10					
Pasture B Grazed (1 Nov-31 Mar)	C1-1							20					0	10			
	C2-1		0		0			0				5					
	C3-1	0	0		0			0						8			
	C4-1		0						0			9					
	C5-1				0		5					6				5	
	C6-1	0	0							0		6				0	
	C7-1	5			25			0				12		10			0
	C8-1				0		0	0				5		0			
	C9-1		13		0			0				13					
	C10-1	0					0					5					
Pasture C Grazed (1 Nov-6 June)	Exc.I	0			5			0				23	11	46			
	C1-1	0	0									6					
	C2-1				0			0				19					
	C4-1		5					0				14					
	C5-1	0	0					0		0		7					
	C6-1		0					0				13					
	Exc.I		5		0			5				6					
Pasture D Grazed (1 Nov-30 Apr)	C1-1	0			6							9		33		14	
	C2-1		41		14							20					
	C3-1				0			0				9	0		15		
	C4-1		30					0				25		56			
	C5-1		0		0			17				17	18	56	29	39	
	C6-1	0	5		0				0	0	0	21					
	C8-1	0			5			5				10		38			
	C10-1		21								0	23		70	19	5	





Table 5. Percent Utilization of Grasses and Shrubs Other Than Key Forage Species (Agsm) Following Summer Grazing During 1968. The figures are average utilization values for sampling sites obtained by estimating use within seven percentage classes and dividing by frequency of occurrence. Occurrence, hence sample size, varies for species and only a rough index to utilization is obtained. Oppenhiemer East pasture was sampled on 13 August 1968, Oppenhiemer West on 28 Sept. and all others on 27-28 October, 1968.

Pasture	Sampling																			
	Site	Orhy	Stco	Pofe	Pose	Kocr	Agsp	Sihy	Hija	Cael	Brte	Cafi	Feoc	Spcr	Artr	Arsp	Atga	Atco	Eula	Arpe
Poison	C1-1	0	0		0			0		4					0					
Buttes	C2-1	0	25		0			0	0						0					
(Grazed	C3-1	0	14		0			0		2	0				0					0
1 May-	C4-1		0		6			0		0	0				0		0			
31 Oct)	C5-1	50			0			0			0				0	0	0			
	C6-1				0			0							0					
	C7-1				0	5		0							0					
	C8-1				5						0									
	C9-1		11	80	5	0		0		0					0					
	C10-1		25		0			0			0				0					
	Exc.I		25	0	5			0			5									
Oppenhiemer	C1-1		55	0	0	0		5		38	0				0					
East	C2-1	5	47		0	5									0					
(Grazed	C3-1	70	15		5			5							0					
1 May-	C4-1		50		7										0		0	0		
15 July +)	C5-1	38		0	0			0							0					
	C6-1		0		0			0							0					
	C7-1				5			0			0				0					
	Exc.I	5			0			0		31					0					
Oppenhiemer	C1-1	29			5			0			0				0	0	5			
West	C2-1		90		6			5		17					0					
(Grazed	C3-1		56		5			14			0				0					
15 July-	C4-1	0	15		0			0							0					
30 Sept +)	C5-1	80	28		0										0					
	C6-1	5			0			0							0		0			
	C7-1	0	9		0			0							0					
	Exc.I	20	0		0	0		0		20					0					0





Table 5. Continued

Pasture	Sampling Site	Orhy	Stco	Pofe	Pose	Kocr	Agsp	Sihy	Hija	Cael	Brte	Cafi	Feoc	Spcr	Artr	Arsp	Atga	Eula	Arpe
Pasture B (Grazed 1 May- 31 Oct)	C1-1	77						70							0		43		
	C2-1	24	38		0														
	C3-1		12		0			0									0		
	C4-1	80	53		0			25	0			14			0				
	C5-1	5			0	0	0					0							
	C6-1	0			0					0									
	C7-1	32			5			16									14	0	0
	C8-1	50			0		30	0							0				
	C9-1	40	61		0			9		0			0		0		0		
	C10-1				0	0	0	0							0				
	Exc.I	39			7			7							0	5			
Pasture C (Grazed 15 July- 31 Oct)	C1-1	19	40		0			0							0				
	C2-1	7	0		0			0			0				0		5	0	
	C3-1	0	23		0			0		16				5	0		0		
	C4-1	0	13		0			0		0					0				
	C5-1	0	17		0			7							0				
	C6-1	12	60		0			0	5		0				0		0		
	Exc.I	0	13		22			0							0				





TABLE 6 TWIG UTILIZATION ON CEMO AND PUTR BUSHES  
DURING THE WINTER OF 1967 - 1968.

Pasture	Species	Percent Twig Use Per Bush <sup>1/</sup>										Avg. % all Bushes
Poison Buttes	Cemo	62	93	88	86	82	78	79	59	83	90	80
Oppenhiemer East	Cemo	73	78	88	75	50						73
Oppenhiemer West	Cemo	90	85	89	58	91						83
Pasture A	Putr	0	69	20	21	0						22
Pasture B	Cemo	75	88	92	89	87						86
Pasture C	Cemo	81	85	84	89	86						85
Pasture D	Cemo	0	80	37	55	83						51
Pasture D	Putr	66	56	72	62	36						58

<sup>1/</sup> Figures represent the percent reduction in length of 10 current twigs per bush which were tagged and measured in Sept. 1967 and remeasured in June, 1968. In some cases tags were stripped off and the utilization is based on less than 10 twigs. Figures were rounded to nearest whole number after calculating.





Table 7. Precipitation Records

Rain Gauge Number	Location	Pasture or Pasture Junction	1 Sept 1967	14 Oct 1967	11 Apr 1968	1 July 1968	30 Aug 1968	12 Oct 1968
124	SE $\frac{1}{4}$ Sec 25 T13N R92W	Poison Buttes Exc. I	Installed	1.68	4.32	3.15	2.55	0.67
125	SE $\frac{1}{4}$ Sec 36 T13N R92W	Poison Buttes Exc. II		Installed	5.41	3.30	1.56	0.79
126	SW $\frac{1}{4}$ Sec 10 T12N R92W	Poison Buttes-Opp. E.		Installed	3.59	2.78	1.42	0.71
127	NE $\frac{1}{4}$ Sec 30 T13N R92W	Oppenhiemer E-W		Installed	3.35	2.78	1.44	0.72
128	SW $\frac{1}{4}$ Sec 5 T13N R92W	Oppenhiemer Exc.	Installed	1.75	3.66	2.99	1.73	0.79
129	NE $\frac{1}{4}$ Sec 11 T12N R93W	Oppenhiemer W-C		Installed	2.91	2.32	1.51	0.69
130	SW $\frac{1}{4}$ Sec 28 T13N R93W	Powder Rim C Exc.	Installed	1.10	2.84	2.52	0.87	0.81
131	SW $\frac{1}{4}$ Sec 26 T13N R94W	Powder Rim D Exc.		Installed	2.85	2.55	0.75	0.75
132	NW $\frac{1}{4}$ Sec 12 T12N R94W	Powder Rim D-C		Installed	2.71	2.71	0.91	0.78
133	NE $\frac{1}{4}$ Sec 10 T12N R94W	Powder Rim D-C-B	Installed	1.25	2.32	2.22	0.93	0.82
134	NE $\frac{1}{4}$ Sec 7 T12N R94W	Powder Rim B-D		Installed	2.13	2.53	1.49	0.72
135	NW $\frac{1}{4}$ Sec 19 T12N R94W	Powder Rim B		1.10	3.25	3.04	1.82	0.80
136	SW $\frac{1}{4}$ Sec 36 T13N R95W	Powder Rim B Exc. I	Installed	1.48	2.75	2.86	1.65	0.93
137	NW $\frac{1}{4}$ Sec 10 T12N R95W	Powder Rim B Exc. II		Installed	4.16	3.27	2.40	0.92
138	NE $\frac{1}{4}$ Sec 32 T13N R95W	Powder Rim A-B	Installed	1.20	2.82	3.42	2.16	0.65
139	SW $\frac{1}{4}$ Sec 25 T13N R94W	Powder Rim A Exc. I	Installed	1.41	2.70	3.60	1.67	0.97
140	SW $\frac{1}{4}$ Sec 4 T13N R95W	Powder Rim A		Installed	2.23	2.79	1.64	0.63
		Average		1.37	3.18	2.87	1.56	0.77





Checklist of Plants  
Collected on the Grazing Systems Study Area  
West of Baggs in Carbon and Sweetwater Counties, Wyoming

The collections in the Rocky Mountain Herbarium of the University of Wyoming were used to verify identifications of plants in the following list. Nomenclature follows the treatment of the herbarium collections and is not based on a particular published flora. Due to the lack of a comprehensive flora for the Wyoming area, no attempt has been made to show synonymy. Families are arranged in a phylogenetic order, following the Engler and Prantl system. Common names were taken from "Recommended Plant Names", a list compiled by Dr. A. A. Beetle. Plant names marked with an asterisk (\*) denote those which are the first recorded collection in Wyoming.

Cupressaceae

Cypress Family

*Juniperus osteosperma* (Torr.) Little                      Utah juniper

Juncaginaceae

Arrowgrass Family

*Triglochin maritima* L.                                      Marsh arrowgrass

Gramineae

Grass Family

<i>Agropyron cristatum</i> (L.) Gaertn.	Crested wheatgrass
<i>Agropyron spicatum</i> (Pursh) Scribn. & Smith	Bluebunch wheatgrass
<i>Agropyron smithii</i> Rydb.	Western wheatgrass
<i>Agropyron dasystachyum</i> (Hook.) Scribn.	Thickspike wheatgrass
<i>Aristida fendleriana</i> Steud.	Fendler threeawn
<i>Bromus commutatus</i> Schrad.	Hairy brome
<i>Bromus inermis</i> Leyss.	Smooth brome
<i>Bromus tectorum</i> L.	Cheatgrass brome
<i>Calamagrostis montanensis</i> Scribn.	Plains reedgrass
<i>Dactylis glomerata</i> L.	Common orchardgrass
<i>Distichlis spicata</i> (L.) Greene	
var. <i>stricta</i> (Torr.) Beetle	Inland saltgrass
<i>Elymus cinereus</i> Scribn. & Merr.	Basin wildrye
<i>Festuca octoflora</i> Walt.	Common sixweeks fescue
<i>Hordeum jubatum</i> L.	Foxtail barley
<i>Hordeum jubatum</i> L.	
var. <i>caespitosum</i> (Scribn.) Hitchc.	Bobtail barley
<i>Hilaria jamesii</i> (Torr.) Benth.	Galleta hiliaria
<i>Koeleria cristata</i> (L.) Pers.	Prairie junegrass
<i>Oryzopsis hymenoides</i> (Roem. & Schult.)	
Ricker	Indian ricegrass
<i>Phragmites communis</i> Trin.	Common reed
<i>Poa canbyi</i> (Scribn.) Piper	Canby bluegrass
<i>Poa fendleriana</i> (Steud.) Vasey	Mutton bluegrass
<i>Poa pratensis</i> L.	Kentucky bluegrass





Gramineae (con't)

<i>Poa secunda</i> Presl.	Sandberg bluegrass
<i>Puccinellia airoides</i> (Nutt.) Wats. & Coult.	Nuttall alkaligrass
<i>Sitanion hystrix</i> (Nutt.) J. G. Smith	Bottlebrush squirreltail
<i>Spartina gracilis</i> Trin.	Alkali cordgrass
<i>Sporobolus cryptandrus</i> (Torr.) A. Gray	Sand dropseed
<i>Stipa comata</i> Trin. & Rupr.	Needleandthread
<i>Stipa viridula</i> Trin.	Green needlegrass

Cyperaceae

Sedge Family

<i>Carex eleocharis</i> Bailey	Needleleaf sedge
<i>Carex filifolia</i> Nutt.	Threadleaf sedge
<i>Scirpus nevadensis</i> S. Wats	Nevada bulrush

Juncaceae

Rush Family

<i>Juncus balticus</i> Willd.	
var. <i>montanus</i> Engelm.	Baltic rush

Liliaceae

Lily Family

<i>Allium acuminatum</i> Hook.	Tapertip onion
<i>Allium textile</i> Nels. & Macbr.	Prairie onion
* <i>Androstephium breviflorum</i> S. Wats.	Purple funnellily
<i>Calochortus nuttallii</i> Torr.	Sego mariposalily

Santalaceae

Sandalwood Family

<i>Comandra pallida</i> A.D.C.	Pale bastardtoadflax
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Polygonaceae

Buckwheat Family

<i>Eriogonum brevicaule</i> Nutt.	Shortstem wildbuckwheat
<i>Eriogonum cernuum</i> Nutt.	Nodding wildbuckwheat
<i>Eriogonum microthecum</i> Nutt.	
var. <i>laxiflorum</i> Benth.	Slenderbush wildbuckwheat
<i>Eriogonum ovalifolium</i> Nutt.	Cushion wildbuckwheat
<i>Eriogonum umbellatum</i> Torr.	
var. <i>intectum</i> A. Nels.	Sulphur wildbuckwheat
<i>Eriogonum umbellatum</i> Torr.	
var. <i>umbellatum</i>	Sulphur wildbuckwheat
<i>Polygonum aviculare</i> L.	Prostrate knotweed
<i>Polygonum sawatchense</i> Small	Sawatch knotweed

Chenopodiaceae

Goosefoot Family

<i>Antriplex argentea</i> Nutt.	Tumbling saltbush
<i>Antriplex canescens</i> (Pursh.) Nutt.	Fourwing saltbush
<i>Antriplex confertifolia</i> (Torr. & Frem)	
S. Wats.	Shadscale saltbush





Chenopodiaceae (con't)

Atriplex dioeca (Nutt.) Macbr.	Scurfless saltbush
Atriplex gardneri (Moq.) D. Dietr.	Nuttall saltbush
Atriplex patula L.	
ssp. hastata (L.) Hall & Clem.	Fathen saltbush
Atriplex wolfii S. Wats.	Wolf saltbush
Chenopodium atrovirens Rydb.	Dark goosefoot
Chenopodium berlandieri Moq.	
var. zschackei (Murr.) Murr.	Pitseed goosefoot
Chenopodium denticatum A. Nels.	Desert goosefoot
Eurotia lanata (Pursh.) Moq.	Common winterfat
Grayia spinosa (Hook.) Moq.	Spiny hopsage
Halogeton glomeratus (M. Bieb) C.A. Meyer	Common halogeton
Kochia americana S. Wats.	Greenmolly summercypress
Monolepis nuttalliana (R. & S.) Greene	Nuttall monolepis
Salicornia europaea L.	
ssp. rubra (A. Nels.) Breitung	Marshfire glasswort
Salsola kali L.	Common russianthistle
Sarcobatus vermiculatus (Hook.) Torr.	Black greasewood
Suaeda depressa (Pursh) S. Wats.	
var. erecta S. Wats.	Pursh seepweed
Suaeda fruticosa (L.) Forsk.	Alkali seepweed
Suaeda occidentalis S. Wats.	Western seepweed

Amaranthaceae

Amaranth Family

Amaranthus gracizans L.	Prostrate pigweed
Amaranthus retroflexus L.	Redroot pigweed

Nyctaginaceae

Four-o'clock Family

Tripterocalyx micranthus (Torr.) Hook.	Annual sandpuffs
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Portulacaceae

Purslane Family

Lewisia rediviva Pursh	Bitterroot lewisia
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Caryophyllaceae

Pink Family

*Arenaria fendleri	
var. eastwoodiae (Rydb.)	Fendler sandwort
Arenaria hookeri	
var. desertorum Maguire	Hooker sandwort
Arenaria nuttallii Pax	Nuttall sandwort

Ranunculaceae

Crowfoot Family

Delphinium nelsoni Greene	Nelson larkspur
Ranunculus cymbalaria Pursh	
var. saximontana Fern.	Shore buttercup





Crucifereae

Mustard Family

Alyssum desertorum Stapf	Desert alyssum
*Arabis crandellii Robinson	Crandell rockcress
Arabis holboellii Hornem.	
var. retrofracta (Graham) Rydb.	Holboell rockcress
Arabis lignifera A. Nels.	Woody rockcress
*Arabis pulchra Jones	
var. pallens Jones	Palebeauty rockcress
Camelina microcarpa Andrz.	Littleseed falseflax
Cardaria pubescens (Meyer) Rollins	
var. elongata Rollins	Hairy whitetop
Caulanthus crassicaulis (Torr.) Watson	Thickstem wildcabbage
Chorispora tenella (Pall.) D.C.	Common bluemustard
Descurania pinnata (Walt.) Britt.	
ssp. intermedia (Rydb.) Detling	Pinnate tansymustard
Descurania pinnata (Walt.) Britt.	
ssp. halictorum (Ckll.) Detling	Pinnate tansymustard
Erysimum asperum (Nutt.) D.C.	Plains wallflower
Galium boreale L.	Northern bedstraw
Lesquerella condensata A. Nels.	Tufted bladderpod
Lesquerella ludoviciana (Nutt.) S. Wats	Foothill bladderpod
Lepidium perfoliatum L.	Clasping pepperweed
Physaria australis (Payson) Rollins	Common twinpod
Sisymbrium elegans (Jones) Payson	Showy hedgemustard
Sisymbrium linifolium (Nutt.)	
Nutt. ex T. & G.	Narrowleaf hedgemustard
Stanleya pinnata (Pursh) Britt.	
var. integrifolia (Jones) Rollins	Desert princesplume
Streptanthella longirostris (S. Wats.) Rydb.	Beakpod nippletwist
Streptanthus cordatus Nutt. ex T. & G.	Heartleaf twistflower
Thelypodium integrifolium (Nutt.) Endl.	Entireleaved thelypody

Capparidaceae

Caper Family

Cleome lutea Hook.	Yellow beeplant
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Rosaceae

Rose Family

Cercocarpus montanus Raf.	True mountainmahogany
Prunus virginiana L.	
var. melanocarpa (A. Nels.) Sarg.	Black chokecherry
Purshia tridentata (Pursh) D.C.	Antelope bitterbrush

Leguminosae

Pea Family

Astragalus cibarius Sheld.	Silky milkvetch
Astragalus diversifolius A. Gray	Meadow milkvetch
Astragalus drummondii Dougl. ex Hook.	Drummond milkvetch
Astragalus geyeri Gray	Geyer milkvetch
Astragalus haydenianus A. Gray	Hayden milkvetch





Leguminosae (con't)

Astragalus pectinatus Dougl.		
var. platyphyllus Jones		Fineleaved milkvetch
Astragalus purshii Dougl. ex Hook.		Pursh milkvetch
Astragalus spatulatus Sheld.		Spoonleaf milkvetch
Astragalus tenellus Pursh		Pulse milkvetch
Glycyrrhiza lepidota Pursh		American licorice
Hedysarum boreale Nutt.		
var. cinerascens (Rydb.) Rollins		Northern sweetvetch
Lupinus argenteus Pursh		
var. tenellus (Dougl. ex G. Don) Dunn		Silvery lupine
Lupinus pusillus Pursh		Rusty lupine
Oxytropis multiceps (Nutt.) ex T. & G.		Flowery loco
Oxytropis sericea (Nutt.) ex T. & G.		Silky loco
Psoralea lanceolata Pursh		Lemon scurfpea
Thermopsis rhombifolia Nutt. ex Rich.		Prairie thermopsis
Trifolium gymnocarpon Nutt.		Hollyleaf clover
Vicia americana Muhl. ex Willd.		
var. truncata (Nutt.) Brewer		American vetch
Linaceae	Flax Family	
Linum lewisii Pursh		Lewis flax
Euphorbiaceae	Spurge Family	
Euphorbia robusta (Engelm.) Small		Robust spurge
Malvaceae	Mallow Family	
Sphaeralcea coccinea (Pursh) Rydb.		Scarlet globemallow
Tamaricaceae	Tamarisk Family	
Tamarix pentandra Pall.		Saltcedar tamarisk
Violaceae	Violet Family	
Viola nuttallii Pursh		
var. vallicola (A. Nels.) St. John		Nuttall violet
Loasaceae	Blazing-star Family	
Mentzelia albicaulis (Hook.) T. & G.		Whitestem mentzelia
Mentzelia dispersa S. Wats.		Bushy mentzelia
Cactaceae	Cactus Family	
Opuntia polyacantha Haw.		Plains pricklypear





Onagraceae

Evening-primrose Family

<i>Epilobium paniculatum</i> Nutt. ex T. & G. forma <i>adenocaulon</i> Hausskn.	Sticky willowherb
<i>Gayophytum ramosissimum</i> T. & G.	Branchy groundsmoke
<i>Oenothera andina</i> Nutt. ex T. & G.	Andean sundrops
<i>Oenothera caespitosa</i> Nutt.	Tufted eveningprimrose
<i>Oenothera contorta</i> Dougl. ex Lehm. var. <i>flexuosa</i> (A. Nels.) Munz	Plains eveningprimrose
<i>Oenothera pallida</i> Lindl. ssp. <i>trichocalyx</i> (Nutt. ex T. & G.) Munz & Klein	Pale eveningprimrose
<i>Oenothera scapoidea</i> T. & G.	Barestem eveningprimrose

Umbelliferae

Parsley Family

<i>Cymopterus acaulis</i> (Pursh) Raf.	Stemless springparsley
<i>Cymopterus bulbosus</i> A. Nels.	Onion springparsley
<i>Lomatium foeniculaceum</i> (Nutt.) C. & R.	Hairyseed lomatium
<i>Lomatium simplex</i> (Nutt.) McBride	Narrowleaf lomatium
<i>Pteryxia terebinthina</i> (Hook) C. & R. var. <i>calcareae</i> (Jones) Mathias	Ferny springparsley

Asclepiadaceae

Milkweed Family

<i>Asclepias cryptoceras</i> S. Wats.	Pallid milkweed
<i>Asclepias speciosa</i> Torr.	Showy milkweed

Polemoniaceae

Phlox Family

<i>Gilia aggregata</i> (Pursh) Spreng.	Skyrocket gilia
<i>Gilia congesta</i> Hook.	Ballhead gilia
<i>Gilia pumila</i> Nutt.	Dwarf gilia
<i>Gilia sinuata</i> Dougl. ex Benth.	Rosy gilia
<i>Gymnostris parvula</i> Heller	Leafless falsephlox
<i>Leptodactylon pungens</i> (Torr.) Nutt.	Granite gilia
<i>Phlox hoodii</i> Rich.	Hoods phlox
<i>Phlox longifolia</i> Nutt.	Longleaf phlox

Hydrophyllaceae

Waterleaf Family

<i>Nama densum</i> Lemmon var. <i>parviflorum</i> (Greenm.) C. L. Hitchc.	Leafy nama
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Boraginaceae

Borage Family

<i>Cryptantha ambigua</i> (A. Gray) Greene	Wilkes cryptantha
<i>Cryptantha bradburiana</i> Payson	Minerscandle cryptantha
<i>Cryptantha caespitosa</i> (A. Nels.) Payson	Tufted cryptantha
<i>Cryptantha flava</i> (A. Nels.) Payson	Yellow cryptantha
<i>Cryptantha flavoculata</i> (A. Nels.) Payson	Roughseed cryptantha





Boraginaceae (con't)

<i>Cryptantha watsonii</i> (A. Gray) Greene	Watson cryptantha
<i>Lappula redowskii</i> (Hornem.) Greene	
var. <i>occidentalis</i> (S. Wats.) Rydb.	Bluebur stickseed
<i>Lithospermum incisum</i> Lehm.	Narrowleaf gromwell
<i>Lithospermum ruderales</i> Dougl. ex Lehm.	Wayside gromwell
<i>Mertensia oblongifolia</i> (Nutt.) G. Don	
var. <i>nevadensis</i> (A. Nels.) L. Williams	Oblongleaf bluebells

Scrophulariaceae

Figwort Family

<i>Castilleja chromosa</i> A. Nels.	Desert indianpaintbrush
<i>Collinsia parviflora</i> Dougl. ex Lindl.	Smallflowered blueeyedmary
<i>Cordylanthus raemosus</i> Nutt. ex Benth.	Bushy birdbeak
<i>Penstemon fremontii</i> T. & G.	Fremont penstemon
* <i>Penstemon mensarum</i> Pennell	Grandmesa penstemon
<i>Penstemon pachyphyllus</i> A. Gray	Thickleaf penstemon

Orobanchaceae

Broomrape Family

<i>Orebanche fasciculata</i> Nutt.	Purple broomrape
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Plantaginaceae

Plantain Family

<i>Plantago patagonica</i> Jacq.	Wooly plantain
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Caprifoliaceae

Honeysuckle Family

<i>Symphoricarpos oreophilus</i> A. Gray	Mountain snowberry
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Compositae

Sunflower Family

<i>Artemesia cana</i> Pursh	Silver sagebrush
<i>Artemesia frigida</i> Willd.	Fringed sagewort
<i>Artemesia nova</i> A. Nels.	Black sagebrush
<i>Artemesia peditifida</i> Nutt.	Birdfoot sagewort
<i>Artemesia spinescens</i> D.C. Eaton	Bud sagewort
<i>Artemesia tridentata</i> Nutt.	Basin big sagebrush
<i>Achillea millefolium</i> L.	
ssp. <i>lanulosa</i> (Nutt.) Piper	Common yarrow
<i>Agoseris glauca</i> (Pursh) Raf.	
var. <i>laciniata</i> (D.C. Eat.) Smiley	Pale agoseris
<i>Antennaria dimorpha</i> (Nutt.) T. & G.	Low pussytoes
<i>Antennaria rosea</i> Greene	Rose pussytoes
<i>Aster adsendens</i> Lindl.	Longleaf aster
<i>Aster arenosus</i> (Heller) Blake	Smallflower aster
<i>Aster pauciflorus</i> Nutt.	Fewflowered aster
<i>Balsamorhiza sagittata</i> (Pursh) Nutt.	Arrowleaf balsamroot
<i>Chaenactis douglasii</i> (Hook.) H. & A.	Douglas dustymaiden
<i>Chrysothamnus greenii</i> (A. Gray) Greene	Greene rabbitbrush
<i>Chrysothamnus nauseosus</i> (Pall.) Britt.	
var. <i>albicaulis</i> (Nutt.) Rydb.	Rubber rabbitbrush





Compositae (con't)

Chrysothamnus nauseosus (Pall.) Britt. var. artus (A. Nels.) Cronq.	Rubber rabbitbrush
Chrysothamnus nauseosus (Pall.) Britt. var. glabratus (Gray) Cronq.	Rubber rabbitbrush
Chrysothamnus parryi (A. Gray) Greene ssp. howardii (Parry) H. & C.	Parry rabbitbrush
Chrysothamnus vicidiflorus (Hook.) Nutt. ssp. lanceolatus (Nutt.) H. & C.	Douglas rabbitbrush
Chrysothamnus vicidiflorus (Hook.) Nutt. ssp. pumilus (Nutt.) H. & C.	Low douglas rabbitbrush
Chrysothamnus vicidiflorus (Hook.) Nutt. ssp. vicidiflorus	Douglas rabbitbrush
Cirsium arvense (L.) Scop.	Canada thistle
Crepis acuminata Nutt.	Tapertip hawksbeard
Crepis modocensis Greene	Yellowstone hawksbeard
Crepis occidentalis Nutt.	Western hawksbeard
Erigeron eatoni A. Gray ssp. typicus Cronq.	Eaton fleabane
Erigeron engelmanni A. Nels. ssp. typicus Cronq.	Engelmann fleabane
Erigeron nematophyllus Rydb.	Mat fleabane
Erigeron pulcherrimus var. wyomingia (Rydb.) Cronq.	Wyoming Basin fleabane
Erigeron pumilus Nutt. ssp. concinnoides Cronq.	Low fleabane
Franseria acanthicarpa (Hook.) Coville	Annual bursage
Grindellia squarrosa (Push) Dunal	Curlycup gumweed
Gutierrezia sarothrae (Pursh) Britt. & Rusby	Broom snakeweed
Haplopappus acaulis (Nutt.) A. Gray	Stemless goldenweed
Haplopappus armerioides (Nutt.) A. Gray	Thrifty goldenweed
Haplopappus lanceolatus (Hook.) T. & G.	Lanceleaf goldenweed
Hymenopappus filifolius Hook. var. luteus (Nutt.) Turner	Fineleaf hymenopappus
Hymenoxys richardsonii (Hook.) Ckll.	Pingue actinea
Iva axillaris Pursh	Poverty sumpweed
Iva xanthifolia Nutt.	Marshelder sumpweed
Lygodesmia grandiflora (Nutt.) T. & G.	Largeflowered skeletonplant
Machaeranthera canescens (Pursh) A. Gray	Hoary tansyaster
Machaeranthera glabriuscula (Nutt.) Cronq. & Keck var. villosa (Nutt.) Cronq. & Keck	Alkali aster
Machaeranthera grindelioides (Nutt.) Shinners	Nuttall goldenweed
Senecio integerrimus Nutt. var. exaltatus (Nutt.) Cronq.	Lambstongue groundsel
Stephanomeria runcinata Nutt.	Desert wirelettuce
Tanacetum nuttallii T. & G.	Nuttall tansy
Tetradymia canescens D.C.	Gray horsebrush
Tetradymia nuttallii T. & G.	Nuttall horsebrush
Townsendia incana Nutt.	Hoary townsendia
Townsendia strigosa Nutt.	Hairy townsendia
Tragopogon pratensis L.	Meadow salsify
Wyethia scabra Hook.	Roughleaf wyethia
Xanthium strumarium L.	Common cocklebur





# Codes For Designation of Plant Species

The following codes, based on the scientific names, are used for the designation of species in field recording and in the presentation of data for plots and transects. All plants collected and identified are included in the code list and conflicts in code letters have been resolved. For convenience, the plants have been alphabetized within three life-form groups; trees and shrubs, grasses and grass-like plants, and forbs. Species with several varieties, such a Chrysothamnus nauseosus, are given a single code designation in most instances. Field identification of varietal forms often is difficult and contributes little to ecological information. Two genera, Crepis and Arabis, have proved difficult to separate into species in the field and are designated collectively as Crepis spp. and Arabis spp. in data presentation, although species codes are provided.

Code	Scientific Name	Common Name	Longevity
Arca	<i>Artemesia cana</i>	Silver sagebrush	Perennial
Arfr	<i>Artemesia frigida</i> <u>1/</u>	Fringed sagewort	"
Arno	<i>Artemesia nova</i>	Black sagebrush	"
Arpe	<i>Artemesia pedatifida</i> <u>1/</u>	Birdfoot sagewort	"
Arsp	<i>Artemesia spinescens</i> <u>1/</u>	Bud sagewort	"
Artr	<i>Artemesia tridentata</i>	Basin big sagebrush	"
Atca	<i>Atriplex canescens</i>	Fourwing saltbush	"
Atco	<i>Atriplex confertifolia</i>	Shadscale saltbush	"
Atga	<i>Atriplex gardneri</i> <u>1/</u>	Nuttall saltbush	"
Cemo	<i>Cercocarpus montanus</i>	True mountainmahogany	"
Chgr	<i>Chrysothamnus Greenei</i>	Greene rabbitbrush	"
Chna	<i>Chrysothamnus nauseosus</i>	Rubber rabbitbrush	"
Chpa	<i>Chrysothamnus parryi</i>	Parry rabbitbrush	"
Chvi	<i>Chrysothamnus vicidiflorus</i>	Douglas rabbitbrush	"
Eula	<i>Eurotia lanata</i> <u>1/</u>	Common winterfat	"
Grsp	<i>Grayia spinosa</i>	Spiny hopsage	"
Gusa	<i>Gutierrezia sarothrae</i> <u>1/</u>	Broom snakeweed	"
Juos	<i>Juniperus osteosperma</i>	Utah juniper	"
Magl	<i>Machaeranthera glabriuscula</i> <u>1/</u>	Alkali aster	"
Prvi	<i>Prunus virginiana</i>	Black chokecherry	"
Putr	<i>Purshia tridentata</i>	Antelope bitterbrush	"
Save	<i>Sarcobatus vermiculatus</i>	Black greasewood	"
Syor	<i>Symphoricarpos oreophilus</i>	Mountain snowberry	"
Tape	<i>Tamarix pentandra</i>	Saltcedar tamarisk	"
Teca	<i>Tetradymia canescens</i>	Gray horsebrush	"
Tenu	<i>Tetradymia nuttallii</i>	Nuttall horsebrush	"
<u>1/ = Suffrutescent or half-shrubs</u>			

## Grasses and Grass-like Plants

Agcr	<i>Agropyron cristatum</i>	Crested wheatgrass	"
Agsp	<i>Agropyron spicatum</i>	Bluebunch wheatgrass	"
Agsm	<i>Agropyron smithii</i>	Western wheatgrass	"
Agda	<i>Agropyron dasystachyum</i>	Thickspike wheatgrass	"







Plant Codes (con't)

Code	Scientific Name	Common Name	Longevity
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Grasses and Grass-like Plants (con't)

Arfe	Aristida fendleriana	Fendler threeawn	Perennial
Brco	Bromus commutatus	Hairy brome	Annual
Brin	Bromus inermis	Smooth brome	Perennial
Brte	Bromus tectorum	Cheatgrass brome	Annual
Cael	Carex eleocharis	Needleleaf sedge	Perennial
Cafi	Carex filifolia	Threadleaf sedge	"
Camo	Calamagrostis montanensis	Plains reedgrass	"
Dagl	Dactylis glomerata	Common orchardgrass	"
Disp	Distichlis spicata	Inland saltgrass	"
Elci	Elymus cineris	Basin wildrye	"
Feoc	Festuca octoflora	Common sixweeks fescue	Annual
Hoju	Hordeum jubatum	Foxtail barley	"
Hoca	Hordeum jubatum var. caespitosum	Bobtail barley	"
Hija	Hilaria jamesii	Galleta hiliaria	Perennial
Kocr	Koeleria cristata	Prairie junegrass	"
Orhy	Oryzopsis hymenoides	Indian ricegrass	"
Phco	Phragmites communis	Common reed	"
Poca	Poa canbyi	Canby bluegrass	"
Pofe	Poa fendleriana	Mutton bluegrass	"
Popr	Poa pratensis	Kentucky bluegrass	"
Pose	Poa secunda	Sandberg bluegrass	"
Puai	Puccinellia airoides	Nuttall alkaligrass	"
Sihy	Sitanion hystrix	Bottlebrush squirreltail	"
Spgr	Spartina gracilis	Alkali cordgrass	"
Spcr	Sporobolus cryptandrus	Sand dropseed	"
Stco	Stipa comata	Needleandthread	"
Stvi	Stipa viridula	Green needlegrass	"
Scne	Scirpus nevadensis	Nevada bulrush	"
Trma	Triglochin maritima	Marsh arrowgrass	"
Juba	Juncus balticus	Baltic rush	"

Forbs

Acmi	Achillea millefolium	Common yarrow	Annual
Aggl	Agoseris glauca	Pale agoseris	Perennial
Alac	Allium acuminatum	Tapertip onion	"
Alte	Allium textile	Prairie onion	"
Alde	Alyssum desertorum	Desert alyssum	Annual
Amgr	Amaranthus gracizans	Prostrate pigweed	"
Amre	Amaranthus retroflexus	Redroot pigweed	"
Anbr	Androstephium breviflorum	Purple funnellily	Perennial
Andi	Antennaria dimorpha	Low pussytoes	"
Anro	Antennaria rosea	Rose pussytoes	"
Arcr	Arabis crandellii	Crandell rockcress	"
Arho	Arabis holboellii	Holboell rockcress	"





Plant Codes (con't)

Code	Scientific Name	Common Name	Longevity
<u>Forbs</u> (con't)			
Arli	<i>Arabis lignifera</i>	Woody rockcress	Perennial
Arpu	<i>Arabis pulchra</i>	Beauty rockcress	"
Arfe	<i>Arenaria fendleri</i>	Fendler sandwort	"
Arho	<i>Arenaria hookeri</i>	Hooker sandwort	"
Arnu	<i>Arenaria nuttallii</i>	Nuttall sandwort	"
Assp	<i>Asclepias speciosa</i>	Showy milkweed	"
Ascr	<i>Asclepias cryptoceras</i>	Pallid milkweed	"
Asad	<i>Aster adsensens</i>	Longleaf aster	"
Asar	<i>Aster arenosus</i>	Smallflower aster	"
Aspa	<i>Aster pauciflorus</i>	Fewhead aster	"
Asci	<i>Astragalus cibarius</i>	Silky milkvetch	"
Asdi	<i>Astragalus diversifolius</i>	Meadow milkvetch	"
Asdr	<i>Astragalus drummondii</i>	Drummond milkvetch	"
Asge	<i>Astragalus geyeri</i>	Geyer milkvetch	Annual
Asha	<i>Astragalus haydenianus</i>	Hayden milkvetch	Perennial
Aspe	<i>Astragalus pectinatus</i>	Fineleaved milkvetch	"
Aspu	<i>Astragalus purshii</i>	Pursh milkvetch	"
Assp	<i>Astragalus spatulatus</i>	Spoonleaf milkvetch	"
Aste	<i>Astragalus tenellus</i>	Pulse milkvetch	"
Atar	<i>Atriplex argentea</i>	Tumbling saltbush	Annual
Atdi	<i>Atriplex dioeca</i>	Scurfless saltbush	"
Atpa	<i>Atriplex patula</i>	Fathen saltbush	"
Atwo	<i>Atriplex wolfii</i>	Wolf saltbush	"
Basa	<i>Balsamorhiza sagittata</i>	Arrowleaf balsamroot	Perennial
Canu	<i>Calochortus nuttallii</i>	Sego mariposalily	"
Cami	<i>Camelina microcarpa</i>	Littleseed falseflax	Annual
Capu	<i>Cardaria pubescens</i>	Hairy whitetop	Perennial
Cach	<i>Castilleja chromosa</i>	Desert indianpaintbrush	"
Cacr	<i>Caulanthus crassicaulis</i>	Thickstem wildcabbage	"
Chdo	<i>Chaenactis douglasii</i>	Douglas dustymaiden	"
Chat	<i>Chenopodium atrovirens</i>	Dark goosefoot	Annual
Chbe	<i>Chenopodium berlandieri</i>	Pitseed goosefoot	"
Chde	<i>Chenopodium denticatum</i>	Desert goosefoot	"
Copa	<i>Collinsia parviflora</i>	Smallflowered blueeyedmary	"
Copal	<i>Comandra pallida</i>	Pale bastardtoadflax	Perennial
Cora	<i>Cordylanthus raemosus</i>	Bushy birdbeak	Annual
Chte	<i>Chorispora tenella</i>	Common bluemustard	"
Ciar	<i>Cirsium arvense</i>	Canada thistle	Perennial
Cllu	<i>Cleome lutea</i>	Yellow beeplant	Annual
Crac	<i>Crepis acuminata</i>	Tapertip hawksbeard	Perennial
Crmo	<i>Crepis modocensis</i>	Yellowstone hawksbeard	"
Croc	<i>Crepis occidentalis</i>	Western hawksbeard	"
Cram	<i>Cryptantha ambigua</i>	Wilkes cryptantha	Annual
Crbr	<i>Cryptantha bradburiana</i>	Minerscandle cryptantha	Perennial
Crca	<i>Cryptantha caespitosa</i>	Tufted cryptantha	"
Crfl	<i>Cryptantha flava</i>	Yellow cryptantha	"
Crfc	<i>Cryptantha flavoculata</i>	Roughseed cryptantha	"





Plant Codes (con't)

Code	Scientific Name	Common Name	Longevity
Forbs (con't)			
Crwa	Cryptantha watsonii	Watson cryptantha	Perennial
Cyac	Cymopterus acaulis	Stemless springparsley	"
Cybu	Cymopterus bulbosus	Onion springparsley	"
Dene	Delphinium nelsoni	Nelson larkspur	"
Depi	Descurania pinnata	Pinnate tansymustard	Annual
Eppa	Epilobium paniculatum	Sticky willowherb	"
Erea	Erigeron eatoni	Eaton fleabane	Perennial
Eren	Erigeron engelmanni	Engelmann fleabane	"
Erne	Erigeron nematophyllus	Mat fleabane	"
Erpul	Erigeron pulcherrimus	Basin fleabane	"
Erpu	Erigeron pumilus	Low fleabane	"
Erbr	Eriogonum brevicaulis	Shortstem wildbuckwheat	"
Erce	Eriogonum cernuum	Nodding wildbuckwheat	Annual
Ermi	Eriogonum microthecum	Slenderbush wildbuckwheat	Perennial
Erov	Eriogonum ovalifolium	Cushion wildbuckwheat	"
Erum	Eriogonum umbellatum	Sulphur wildbuckwheat	"
Eras	Erysimum asperum	Plains wallflower	"
Euro	Euphorbia robusta	Robust spurge	"
Frac	Franseria acanthicarpa	Annual bursage	Annual
Gabo	Calium boreale	Northern bedstraw	Perennial
Gara	Gayophytum ramosissimum	Branchy groundsmoke	Annual
Giag	Gilia aggregata	Skyrocket gilia	Perennial
Gico	Gilia congesta	Ballhead gilia	"
Gipu	Gilia pumila	Dwarf gilia	Annual
Gisi	Gilia sinuata	Rosy gilia	"
Glle	Glycyrrhiza lepidota	American licorice	Perennial
Grsq	Grindellia squarrosa	Curlycup gumweed	"
Gypa	Gymnostris parvula	Leafless falsephlox	Annual
Hagl	Halogeton glomeratus	Common halogeton	"
Haac	Haplopappus acaulis	Stemless goldenweed	Perennial
Haar	Haplopappus armerioides	Thrifty goldenweed	"
Hala	Haplopappus lanceolatus	Lanceleaf goldenweed	"
Hebo	Hedysarum boreale	Northern sweetvetch	"
Hyfi	Hymenopappus filifolius	Fineleaf hymenopappus	"
Hyri	Hymenoxys richardsonii	Pingue actinea	"
Ivax	Iva axillaris	Poverty sumpweed	"
Ivxa	Iva xanthifolia	Marshelder sumpweed	Annual
Koam	Kochia americana	Greenmolly summercypress	Perennial
Lare	Lappula redowskii	Bluebur stickseed	Annual
Lepe	Lepidium perfoliatum	Clasping pepperweed	"
Lepu	Leptodactylon pungens	Granite gilia	Perennial
Leco	Lesquerella condensata	Tufted bladderpod	"
Lelu	Lesquerella ludoviciana	Foothill bladderpod	"
Lere	Lewisia rediviva	Bitterroot lewisia	"
Lile	Linum lewisii	Lewis flax	"
Liin	Lithospermum incisum	Narrowleaf gromwell	"
Liru	Lithospermum ruderales	Wayside gromwell	"





Plant Codes (con't)

Code	Scientific Name	Common Name	Longevity
Forbs (con't)			
Lofo	Lomatium foeniculaceum	Hairyseed lomatium	Perennial
Losi	Lomatium simplex	Narrowleaf lomatium	"
Luar	Lupinus argenteus	Silvery lupine	"
Lupu	Lupinus pusillus	Rusty lupine	Annual
Lygr	Lygodesmia grandiflora	Largeflowered skeletonplant	Perennial
Maca	Machaeranthera canescens	Hoary tansyaster	"
Magr	Machaeranthera grindelioides	Nuttall goldenweed	"
Meal	Mentzelia albicaulis	Whitestem mentzelia	Annual
Medi	Mentzelia dispersa	Bushy mentzelia	"
Meob	Mertensia oblongifolia	Oblongleaf bluebells	Perennial
Monu	Monolepis nuttalliana	Nuttall monolepis	Annual
Nade	Nama densum	Leafy nama	"
Oean	Oenothera andina	Andean sundrops	"
Oeca	Oenothera caespitosa	Tufted eveningprimrose	Perennial
Oeco	Oenothera contorta	Plains eveningprimrose	Annual
Oepa	Oenothera pallida	Pale eveningprimrose	Perennial
Oesc	Oenothera scapoidea	Barestem eveningprimrose	Annual
Oppo	Opuntia polyacantha	Plains pricklypear	Perennial
Orfa	Orebanche fasciculata	Purple broomrape	"
Oxmu	Oxytropis multiceps	Flowery loco	"
Oxse	Oxytropis sericea	Silky loco	"
PeFr	Penstemon fremontii	Fremont penstemon	"
Peme	Penstemon mensarum	Grandmesa penstemon	"
Pepa	Penstemon pachyphyllus	Thickleaf penstemon	"
Phho	Phlox hoodii	Hoods phlox	"
Phlo	Phlox longifolia	Longleaf phlox	"
Phau	Physaria australis	Common twinpod	"
Plpa	Plantago patagonica	Wooly plantain	Annual
Poav	Polygonum aviculare	Prostrate knotweed	"
Posa	Polygonum sawatchense	Sawatch knotweed	"
Psla	Psoralea lanceolata	Lemon scurfpea	Perennial
Ptte	Pteryxia terebinthina	Ferny springparsley	"
Racy	Ranunculus cymbalaria	Shore buttercup	"
Saeu	Salicornia europaea	Marshfire glasswort	Annual
Saka	Salsola kali	Common russianthistle	"
Sein	Senecio integerrimus	Lambstongue groundsel	Perennial
Siel	Sisymbrium elegans	Showy hedgemustard	Annual
Sili	Sisymbrium linifolium	Narrowleaf hedgemustard	Perennial
Spco	Sphaeralcea coccinea	Scarlet globemallow	"
Stpi	Stanleya pinnata	Desert princesplume	"
Stru	Stephanomeria runcinata	Desert wirelettuce	"
Stlo	Streptanthella longirostris	Beakpod nippletwist	Annual
Stcor	Streptanthus cordatus	Heartleaf twistflower	Perennial
Sude	Suaeda depressa	Pursh seepweed	Annual
Sufr	Suaeda fruticosa	Alkali seepweed	Perennial
Suoc	Suaeda occidentalis	Western seepweed	Annual





Plant Codes (con't)

Code	Scientific Name	Common Name	Longevity
Forbs (con't)			
Tanu	Tanacetum nuttallii	Nuttall tansy	Perennial
Thin	Thelypodium integrifolium	Entireleaved thelypodium	"
Thrh	Thermopsis rhombifolia	Prairie thermopsis	"
Toin	Townsendia incana	Hoary townsendia	"
Tost	Townsendia strigosa	Hairy townsendia	"
Trpr	Tragopogon pratensis	Meadow salsify	Annual
Trgy	Trifolium gymnocarpon	Hollyleaf clover	Perennial
Trmi	Tripterocalyx micranthus	Annual sandpuffs	Annual
Viam	Vicia americana	American vetch	Perennial
Vinu	Viola nuttallii	Nuttall violet	"
Wysc	Wyethia scabra	Roughleaf wyethia	"
Xast	Xanthium strumarium	Common cocklebur	Annual





Appendix C

Exclosure location maps and 1967 and 1968 summaries of vegetation cover and composition data from paired transects of permanent plots.

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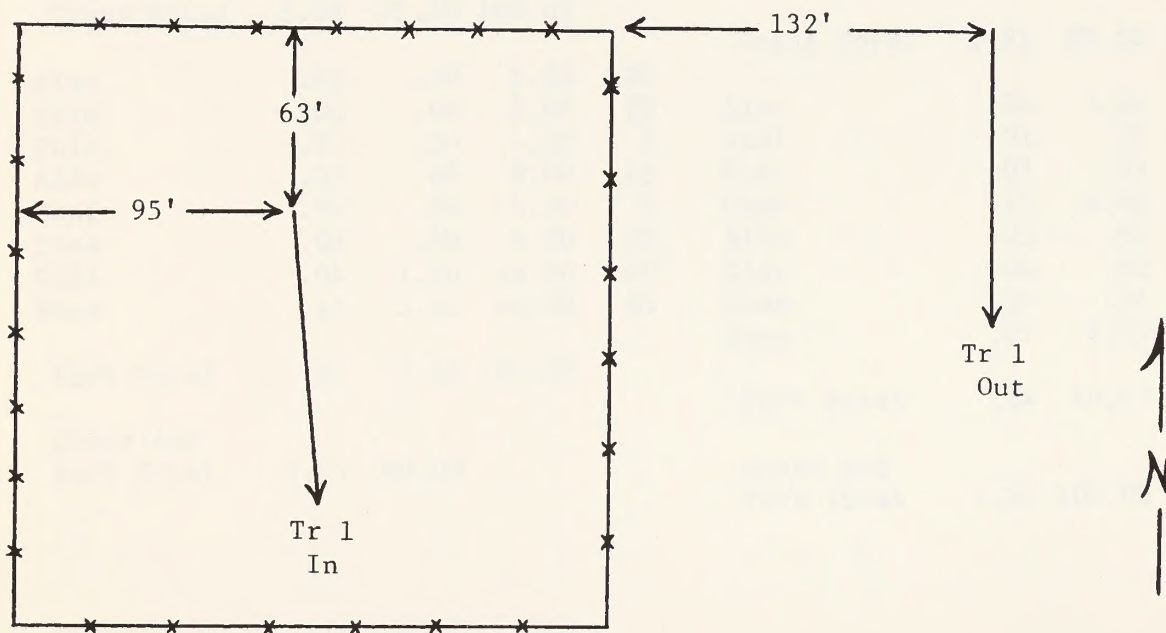
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" "	"	1968 " " " " " " .....	54
" "	Exclosure II	Map and site description .....	55
" "	"	1968 data, transect 1 & 2 In .....	56
" "	"	1968 " " " " " Out .....	57
Powder Rim	Exclosure	Map and site desceiption .....	58
Pasture C	"	1967 data, Sprayed, In & Out transects ....	59
" "	"	1968 " " " " " " .....	60
" "	"	1967 data, No Spray, In & Out transects ...	61
" "	"	1968 " " " " " " " .....	62
Powder Rim	Exclosure	Map and site description .....	63
Pasture D	"	1967 data, In & Out transects .....	64
" "	"	1968 " " " " " .....	65
Poison Buttes & Pasture B Game & Livestock Exclosures		1968 data on cover and density of woody plants as determined from belt & line-point transects .....	66





Grazing Systems Study  
Baggs, Wyoming  
Poison Buttes Allotment  
Exclosure I

Code: 0603  
County: Carbon  
Legal Description: R92W T13N SE $\frac{1}{4}$  Sec 25  
Elevation: 6800  
Slope & Exposure: 3° NE  
Vegetation Type: Big sagebrush - western wheatgrass  
Treatment: Sprayed  
Fence Constructed: Sept., 1967 Livestock exclusion  
Transects Established: Sept., 1967  
Fenceline Photo Stations: From SE corner looking North - fence centered.  
From SE corner looking East - fence centered.  
(Views taken standing on corner cross braces)  
General Location: Turn right (N) at cattleguard just off highway  
on main E-W road N of Baggs. Proceed on trail  
N by NW to gate into Poison Butte Allotment.  
At top of bluff, take left hand fork in trail  
and proceed W 1.7 miles. Exclosure lies N of  
trail.







POISON BUTTES ALLOTMENT

Exclosure I

Arthr-Agsm Type - Sprayed  
NE exp., 3° slope

Outside

Inside

3 Sept. 1967

3 Sept. 1967

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	5 Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Arthr	4.50			20	Arthr	.03			25
Shrub Total	4.50				Shrub Total	.03			
Agsm	2.18	65.48	70.79	85	Agsm	1.75	53.83	60.14	90
Kocr	.09	2.70	2.92	25	Cael	.06	1.85	2.06	10
Pofe	.33	9.91	10.71	40	Kocr	.03	.92	1.03	5
Pose	.09	2.70	2.92	50	Pofe	.36	11.08	12.37	45
Sihy	.21	6.31	6.82	60	Pose	.36	11.08	12.37	75
Stco	.16	4.80	5.19	10	Sihy	.30	9.23	10.31	65
Brte	.02	.60	.65	15	Stco	.03	.92	1.03	5
					Brte	.02	.62	.69	15
Grass Total	3.08	92.50	100.00		Grass Total	2.91	89.53	100.00	
Alac	.02	.60	8.00	20	Alac	.04	1.23	11.76	35
Eren	.02	.60	8.00	20	Andi	.01	.31	2.94	5
Phlo	.01	.30	4.00	5	Eren	.01	.31	2.94	5
Alde	.02	.60	8.00	15	Oppo	.15	4.62	44.13	5
Chat	.01	.30	4.00	5	Alde	.03	.92	8.82	25
Cora	.02	.60	8.00	20	Gisi	.02	.62	5.88	20
Gisi	.04	1.20	16.00	40	Oean	.01	.31	2.94	5
Posa	.11	3.30	44.00	85	Posa	.07	2.15	20.59	70
Forb Total	.25	7.50	100.00		Forb Total	.34	10.47	100.00	
Grass and Forb Total	3.33	100.00			Grass and Forb Total	3.25	100.00		





POISON BUTTES ALLOTMENT

Exclosure I

Artr-Agsm Type - Sprayed  
NE exp., 3° slope

Outside

Inside

25 June 1968

25 June 1968

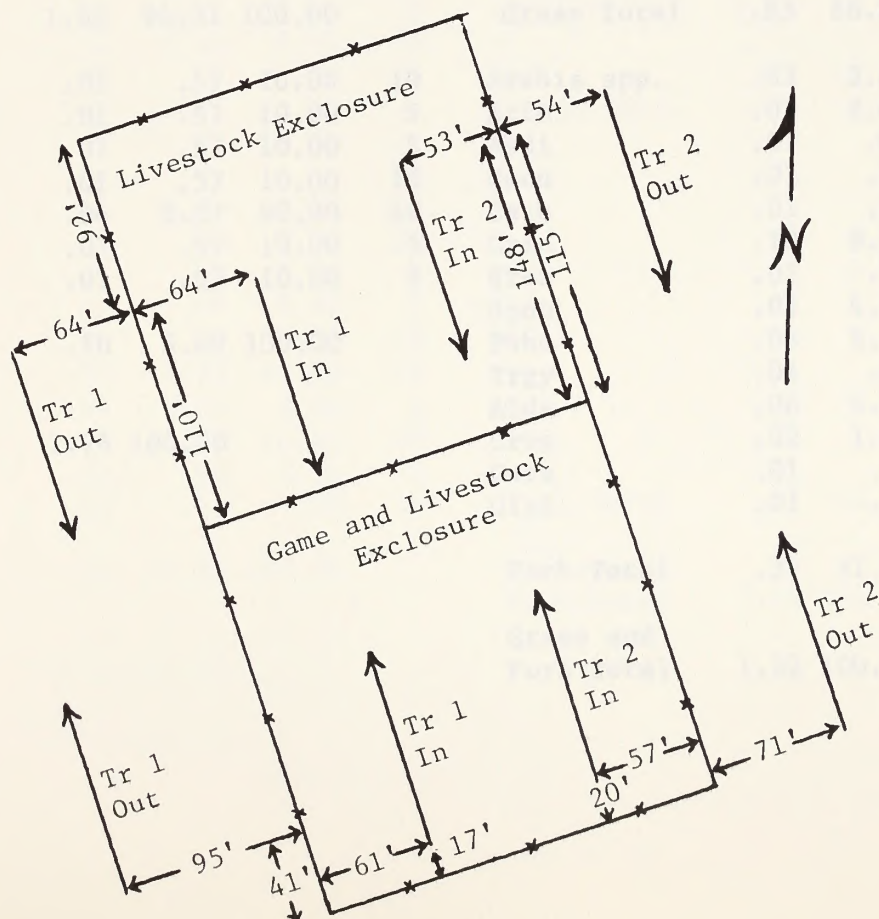
	Cover %	Comp. % all G & F	Comp. % by Group	% Freq.		Cover %	Comp. % all G & F	Comp. % by Group	% Freq.
	Avg.					Avg.			
Artr	6.75			20	Artr	.34			25
Shrub Total	6.75				Shrub Total	.34			
Agsm	3.56	62.06	69.00	95	Agsm	3.63	60.68	64.81	95
Kocr	.39	6.79	7.56	40	Cael	.06	1.00	1.07	10
Pofe	.59	10.28	11.43	50	Kocr	.03	.50	.54	10
Pose	.17	2.96	3.29	45	Pofe	.91	15.22	16.25	70
Sihy	.32	5.57	6.20	55	Pose	.35	5.85	6.25	75
Stco	.10	1.74	1.94	5	Sihy	.58	9.70	10.36	70
Brte	.03	.52	.58	30	Stco	.01	.17	.18	10
					Brte	.03	.50	.54	25
Grass Total	5.16	89.92	100.00		Grass Total	5.60	93.62	100.00	
Alac	.02	.35	3.45	15	Andi	.05	.84	13.16	5
Andi	.01	.17	1.72	5	Asci	.01	.17	2.63	5
Asci	.05	.87	8.62	25	Eren	.01	.17	2.63	10
Asdr	.01	.17	1.72	10	Oppo	.05	.84	13.16	5
Eren	.02	.35	3.45	15	Alde	.04	.67	10.53	40
Trgy	.05	.87	8.62	50	Cora	.01	.17	2.63	5
Alde	.05	.87	8.62	50	Gisi	.08	1.34	21.05	75
Chat	.01	.17	1.72	5	Gypa	.03	.50	7.89	25
Copa	.07	1.22	12.07	65	Oean	.01	.17	2.63	5
Cora	.01	.17	1.72	5	Posa	.09	1.51	23.69	90
Depi	.01	.17	1.72	5					
Gisi	.05	.87	8.62	50	Forb Total	.38	6.38	100.00	
Gypa	.07	1.22	12.07	70					
Oean	.05	.87	8.62	50	Grass and				
Posa	.09	1.57	15.54	85	Forb Total	5.98	100.00		
Unk.	.01	.17	1.72	5					
Forb Total	.58	10.08	100.00						
Grass and									
Forb Total	5.74	100.00							





Grazing Systems Study  
Baggs, Wyoming  
Poison Buttes Allotment  
Exclosure II

Code Number: 0604  
County: Carbon  
Legal Description: R92W T13N SE $\frac{1}{4}$  Sec 36  
Elevation: 6600  
Slope & Exposure: 13° WWS (Game exclosure portion)  
Vegetation Type: Juniper - Big sagebrush - Mountain mahogany  
Treatments: None  
Fence Constructed: Oct., 1967 Livestock Exclosure  
Transects Established: June, 1968  
Fenceline Photo Stations: From NE corner looking NW  
From NE corner looking SW  
From SE corner looking NW  
From SE corner looking NE  
From SE corner livestock portion looking NW  
(Views taken standing on corner cross braces)  
General Location: Proceed W on main road from Baggs to top of bluffs.  
Take first gaswell road to right, proceed N past  
gaswell and take middle fork in trail to top of  
juniper covered ridge. Exclosure 3/4 mile N of  
gaswell and approximately 100 ft. W of trail.





POISON BUTTES ALLOTMENT

Exclosure II

Livestock Exclusion Part

Juos Type

E SE exp., 3-13° slope

Inside Tr. 1

Inside Tr. 2

6 June 1968

6 June 1968

	Cover %	Comp. % all G & F	Comp. % by Group	% Freq.		Cover %	Comp. % all G & F	Comp. % by Group	% Freq.
	Avg.					Avg.			
Artr	11.25			55	Artr	8.83			55
Juos	9.00			10	Juos	17.50			30
Shrub Total	20.25				Shrub Total	26.33			
Agsm	.08	4.55	4.82	15	Agsp	.05	4.10	6.02	5
Orhy	.01	.57	.60	5	Pofe	.38	31.14	45.79	10
Pofe	1.15	65.33	69.28	15	Pose	.06	4.92	7.23	10
Pose	.33	18.75	19.88	15	Sihi	.33	27.04	39.76	20
Sihi	.09	5.11	5.42	25	Brte	.01	.82	1.20	5
Grass Total	1.66	94.31	100.00		Grass Total	.83	68.02	100.00	
Arabis spp.	.01	.57	10.00	10	Arabis spp.	.03	2.46	7.69	5
Crfc	.01	.57	10.00	5	Arfe	.03	2.46	7.69	5
Eren	.01	.57	10.00	5	Asdi	.01	.82	2.56	5
Phho	.01	.57	10.00	10	Canu	.01	.82	2.56	5
Alde	.04	2.27	40.00	40	Cach	.01	.82	2.56	5
Lare	.01	.57	10.00	5	Crfc	.10	8.20	25.66	5
Lupu	.01	.57	10.00	5	Eren	.01	.82	2.56	5
Forb Total	.10	5.69	100.00		Oppo	.05	4.10	12.83	5
Grass and					Phho	.03	2.46	7.69	25
Forb Total	1.76	100.00			Trgy	.01	.82	2.56	10
					Alde	.06	4.92	15.39	40
					Crwa	.02	1.64	5.13	20
					Gara	.01	.82	2.56	5
					Gisi	.01	.82	2.56	10
					Forb Total	.39	31.98	100.00	
					Grass and				
					Forb Total	1.22	100.00		





POISON BUTTES ALLOTMENT

Exclosure II

Livestock Exclusion Part

Juos Type

E SE exp., 3-13° slope

Outside Tr.1

Outside Tr. 2

7 June 1968

7 June 1968

	Cover %	Comp. % all G & F	Comp. % by Group	% Freq.		Cover %	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	5.15			25	Artr	11.15			55
Juos	23.25			35	Juos	22.00			30
Shrub Total	28.40				Shrub Total	33.15			
Agsm	.86	39.24	50.88	60	Orhy	.03	2.01	2.63	10
Agsp	.15	6.85	8.88	5	Sihy	.83	55.72	72.81	45
Kocr	.10	4.57	5.92	5	Pofe	.10	6.71	8.77	15
Orhy	.13	5.94	7.69	10	Pose	.18	12.08	15.79	15
Pose	.24	10.96	14.20	20	Grass Total	1.14	76.52	100.00	
Sihy	.05	2.28	2.96	5	Andi	.15	10.07	42.85	5
Stco	.15	6.85	8.88	5	Arabis spp.	.02	1.34	5.71	20
Brte	.01	.46	.59	10	Crfc	.01	.67	2.86	5
Grass Total	1.69	77.15	100.00		Dene	.01	.67	2.86	5
Andi	.13	5.94	26.00	10	Eren	.01	.67	2.86	10
Arfe	.01	.46	2.00	10	Oppo	.05	3.36	14.29	5
Asdi	.01	.46	2.00	5	Phho	.03	2.01	8.57	10
Canu	.01	.46	2.00	5	Trgy	.01	.67	2.86	5
Trgy	.01	.46	2.00	10	Alde	.02	1.34	5.71	15
Oppo	.20	9.13	40.00	10	Crwa	.01	.67	2.86	10
Phho	.01	.46	2.00	5	Gara	.02	1.34	5.71	15
Alde	.09	4.11	18.00	40	Gisi	.01	.67	2.86	5
Gisi	.01	.46	2.00	5	Forb Total	.35	23.48	100.00	
Unk.	.02	.91	4.00	15	Grass and Forb Total	1.49	100.00		
Forb Total	.50	22.85	100.00						
Grass and Forb Total	2.19	100.00							





POISON BUTTES ALLOTMENT

Exclosure II

Game & Livestock Exclusion Part

Juos Type

W WS exp., 13° slope

Inside Tr. 1

Inside Tr. 2

7 June 1968

7 June 1968

	Cover %	Comp. % all	Comp. % by	% %		Cover %	Comp. % all	Comp. % by	% %
	Avg.	G & F	Group	Freq.		Avg.	G & F	Group	Freq.
Arno	1.65			20	Arno	1.75			10
Cemo	1.90			10	Cemo	4.00			5
Juos	11.25			15	Juos	18.75			25
Shrub Total	14.80				Shrub Total	24.50			
Agsm	.10	4.17	4.95	10	Agsp	.17	5.45	6.20	20
Agsp	.88	36.66	43.56	30	Cafi	.25	8.01	9.12	5
Cafi	.50	20.82	24.75	5	Kocr	.01	.32	.36	5
Kocr	.03	1.25	1.49	10	Orhy	1.26	40.40	45.99	20
Pofe	.40	16.66	19.80	10	Pofe	.85	27.24	31.03	25
Pose	.11	4.58	5.45	10	Pose	.20	6.41	7.30	15
Grass Total	2.02	84.14	100.00		Grass Total	2.74	87.83	100.00	
Arfe	.07	2.92	18.42	25	Arfe	.01	.32	2.63	5
Asdi	.06	2.50	15.79	15	Asdi	.02	.64	5.26	20
Aste	.01	.42	2.63	10	Aste	.01	.32	2.63	5
Canu	.01	.42	2.63	10	Erov	.01	.32	2.63	5
Crepis spp.	.01	.42	2.63	5	Erum	.04	1.28	10.53	15
Erea	.01	.42	2.63	10	Oppo	.25	8.01	65.80	5
Ermi	.01	.42	2.63	5	Phho	.01	.32	2.63	5
Haac	.03	1.25	7.89	5	Trgy	.01	.32	2.63	10
Oppo	.10	4.17	26.34	5	Alde	.01	.32	2.63	5
Phho	.03	1.25	7.89	10	Lare	.01	.32	2.63	5
Trgy	.01	.42	2.63	5					
Alde	.02	.83	5.26	15	Forb Total	.38	12.17	100.00	
Unk.	.01	.42	2.63	5					
Forb Total	.38	15.86	100.00		Grass and Forb Total	3.12	100.00		
Grass and Forb Total	2.40	100.00							





POISON BUTTES ALLOTMENT

Exclosure II

Game & Livestock Exclusion Part

Juos Type

W WS exp., 13° slope

Outside Tr. 1

Outside Tr. 2

8 June 1968

8 June 1968

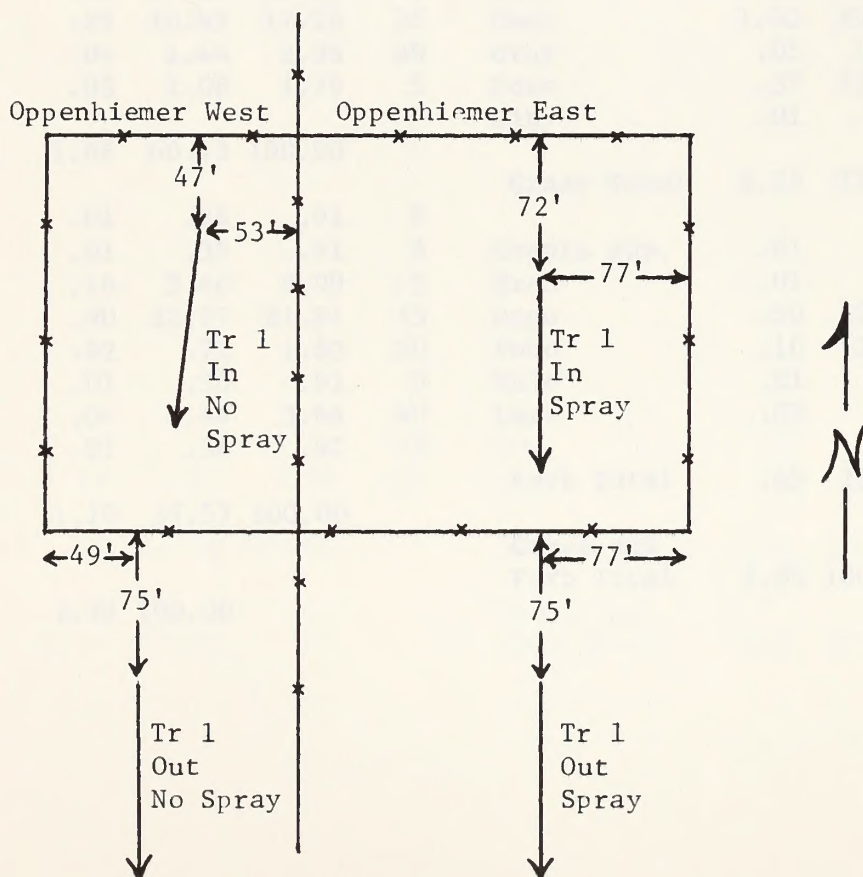
	Cover %	Comp. % all	Comp. % by	% Freq.		Cover %	Comp. % all	Comp. % by	% Freq.
	Avg.	G & F	Group			Avg.	G & F	Group	
Arno	5.76			45	Arno	1.91			30
Juos	47.75			60	Cemo	.50			5
					Juos	40.00			40
Shrub Total	53.51				Shrub Total	42.41			
Agsp	.70	33.48	39.10	45	Agsp	.40	15.56	28.37	15
Cafi	.10	4.78	5.59	5	Hija	.05	1.95	3.55	5
Kocr	.16	7.66	8.94	15	Kocr	.08	3.11	5.67	10
Orhy	.03	1.44	1.68	5	Orhy	.45	17.51	31.91	15
Pofe	.70	33.48	39.10	30	Pofe	.13	5.06	9.22	10
Pose	.10	4.78	5.59	15	Pose	.30	11.67	21.28	25
Grass Total	1.79	85.62	100.00		Grass Total	1.41	54.86	100.00	
Arabis spp.	.01	.48	3.33	10	Arabis spp.	.01	.39	.86	5
Arfe	.02	.96	6.67	20	Arfe	.17	6.61	14.66	25
Asdi	.02	.96	6.67	20	Asdi	.01	.39	.86	5
Canu	.01	.48	3.33	5	Canu	.01	.39	.86	5
Erea	.01	.48	3.33	10	Crfc	.06	2.33	5.17	10
Oppo	.15	7.18	50.02	15	Cyac	.01	.39	.86	10
Phlo	.01	.48	3.33	10	Erea	.01	.39	.86	5
Phho	.03	1.44	10.00	25	Erum	.03	1.17	2.59	5
Toin	.01	.48	3.33	5	Haac	.16	6.23	13.79	15
Trgy	.01	.48	3.33	10	Oppo	.50	19.45	43.12	5
Crwa	.01	.48	3.33	5	Phho	.07	2.72	6.03	25
Unk.	.01	.48	3.33	10	Phau	.03	1.17	2.59	5
Forb Total	.30	14.38	100.00		Toin	.03	1.17	2.59	5
Grass and					Trgy	.01	.39	.86	5
Forb Total	2.09	100.00			Alde	.02	.78	1.72	15
					Crwa	.02	.78	1.72	15
					Gisi	.01	.39	.86	5
					Forb Total	1.16	45.14	100.00	
					Grass and				
					Forb Total	2.57	100.00		





Grazing Systems Study  
Baggs, Wyoming  
Oppenhiemer Allotment  
East & West Pastures

Code Number: 0605  
County: Carbon  
Legal Description: R92W T13N SW $\frac{1}{4}$  Sec 5  
Elevation: 6300  
Slope & Exposure: 1 - 3° SE  
Vegetation Type: Big sagebrush - western wheatgrass  
Treatment: East pasture portion sprayed  
Fence Constructed: Sept., 1967 Livestock exclusion  
Transects established: July & Sept., 1967  
Fenceline Photo Stations: From SW corner looking North - fence centered.  
From SW corner looking East - fence centered.  
From SE corner looking North - fence centered.  
(Views taken standing on corner cross braces)  
General Location: On main road from Baggs, turn E on first trail  
W of Opp. E - Opp. W cattleguard and proceed  
3/4 mile E parallel to division fence, crossing  
gaswell site. Exclosure straddles fenceline.







OPPENHIEMER ALLOTMENT - EAST PASTURE

Exclosure

Artr-Agsm Type - Sprayed  
SE exp., 3° slope

Outside

Inside

2 Sept. 1967

2 Sept. 1967

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	.01			5	Artr	.51			10
Shrub Total	.01				Koam	.01			5
					Shrub Total	.52			
Agsm	.87	31.29	51.79	90	Agsm	.77	26.74	34.53	85
Cael	.45	16.19	26.78	50	Cael	1.03	35.75	46.19	95
Pose	.29	10.43	17.26	75	Orhy	.05	1.74	2.24	5
Sihy	.04	1.44	2.38	20	Pose	.37	12.85	16.59	90
Stco	.03	1.08	1.79	5	Sihy	.01	.35	.45	5
Grass Total	1.68	60.43	100.00		Grass Total	2.23	77.43	100.00	
Alte	.01	.36	.91	5					
Crepis spp.	.01	.36	.91	5	Crepis spp.	.01	.35	1.54	5
Erov	.10	3.60	9.09	5	Eren	.01	.35	1.54	10
Oppo	.90	32.37	81.81	15	Oppo	.50	17.36	76.92	5
Phho	.02	.72	1.82	20	Phho	.10	3.47	15.38	40
Trgy	.01	.36	.91	5	Phlo	.01	.35	1.54	10
Alde	.04	1.44	3.64	40	Lare	.02	.69	3.08	20
Lare	.01	.36	.91	5					
Forb Total	1.10	39.57	100.00		Forb Total	.65	22.57	100.00	
Grass and Forb Total	2.78	100.00			Grass and Forb Total	2.88	100.00		



OPPENHIEMER ALLOTMENT - EAST PASTURE

Exclosure

Artr-Agsm Type - Sprayed  
SE exp., 30° slope

Outside

Inside

3 July 1968

3 July 1968

	Cover %	Comp. % all G & F	Comp. % by Group	% Freq.		Cover %	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	5.25			25	Artr	3.79			30
Shrub Total	5.25				Koam	.03			5
					Shrub Total	3.82			
Agsm	1.09	37.59	45.61	90	Agsm	1.05	33.22	37.64	95
Cael	.63	21.72	26.36	70	Cael	1.02	32.27	36.56	90
Pose	.48	16.55	20.08	95	Orhy	.05	1.58	1.79	5
Sihy	.14	4.83	5.86	30	Pose	.63	19.94	22.58	90
Stco	.05	1.72	2.09	5	Sihy	.04	1.27	1.43	15
Grass Total	2.39	82.41	100.00		Grass Total	2.79	88.28	100.00	
Alte	.01	.35	1.96	5	Crepis spp.	.01	.32	2.70	10
Andi	.01	.35	1.96	5	Eren	.01	.32	2.70	5
Crepis spp.	.03	1.03	5.88	25	Oppo	.15	4.75	40.54	5
Oppo	.35	12.07	68.64	10	Phho	.10	3.16	27.03	35
Phho	.02	.69	3.92	20	Phlo	.01	.32	2.70	10
Trgy	.01	.35	1.96	5	Trgy	.02	.63	5.41	15
Alde	.03	1.03	5.88	30	Cora	.01	.32	2.70	10
Cora	.02	.69	3.92	20	Lare	.06	1.90	16.22	55
Lare	.03	1.03	5.88	25					
Forb Total	.51	17.59	100.00		Forb Total	.37	11.72	100.00	
Grass and Forb Total	2.90	100.00			Grass and Forb Total	3.16	100.00		





OPPENHIEMER ALLOTMENT - WEST PASTURE

Exclosure

Artr-Agsm Type - No Spray  
E exp., 3° slope

Outside

Inside

2 Sept. 1967

13 July 1967

	Cover %	Comp. % all G & F	Comp. % by Group	% Freq.		Cover %	Comp. % all G & F	Comp. % by Group	% Freq.
	Avg.					Avg.			
Artr	2.56			40	Artr	4.86			45
Atco	.01			5	Atco	2.25			10
Shrub Total	2.57				Shrub Total	7.11			
Agsm	.78	24.45	50.65	95	Agsm	.76	22.22	32.76	90
Kocr	.05	1.57	3.25	10	Cael	.15	4.39	6.47	45
Orhy	.08	2.51	5.19	15	Pose	1.38	40.37	59.48	80
Pose	.37	11.60	24.02	75	Sihy	.03	.88	1.29	5
Sihy	.03	.94	1.95	5					
Stco	.23	7.21	14.94	40	Grass Total	2.32	67.86	100.00	
Grass Total	1.54	48.28	100.00		Alte	.01	.29	.91	5
Eren	.01	.31	.61	10	Crepis spp.	.03	.88	2.73	10
Erov	.03	.94	1.82	10	Eren	.06	1.75	5.45	20
Haac	.10	3.13	6.06	5	Erov	.05	1.46	4.55	5
Oppo	1.20	37.62	72.72	15	Oppo	.10	2.92	9.09	5
Phho	.25	7.84	15.15	65	Phho	.65	19.00	59.09	30
Phlo	.02	.63	1.21	15	Spco	.01	.29	.91	5
Cora	.03	.94	1.82	25	Trgy	.07	2.05	6.36	25
Lare	.01	.31	.61	5	Alde	.01	.29	.91	5
					Cora	.09	2.63	8.18	30
					Lare	.02	.58	1.82	20
Forb Total	1.65	51.72	100.00		Forb Total	1.10	32.14	100.00	
Grass and Forb Total	3.19	100.00			Grass and Forb Total	3.42	100.00		





OPPENHIEMER ALLOTMENT - WEST PASTURE

Exclosure

Artr-Agsm Type - No Spray  
E exp., 30° slope

Outside

Inside

27 June 1968

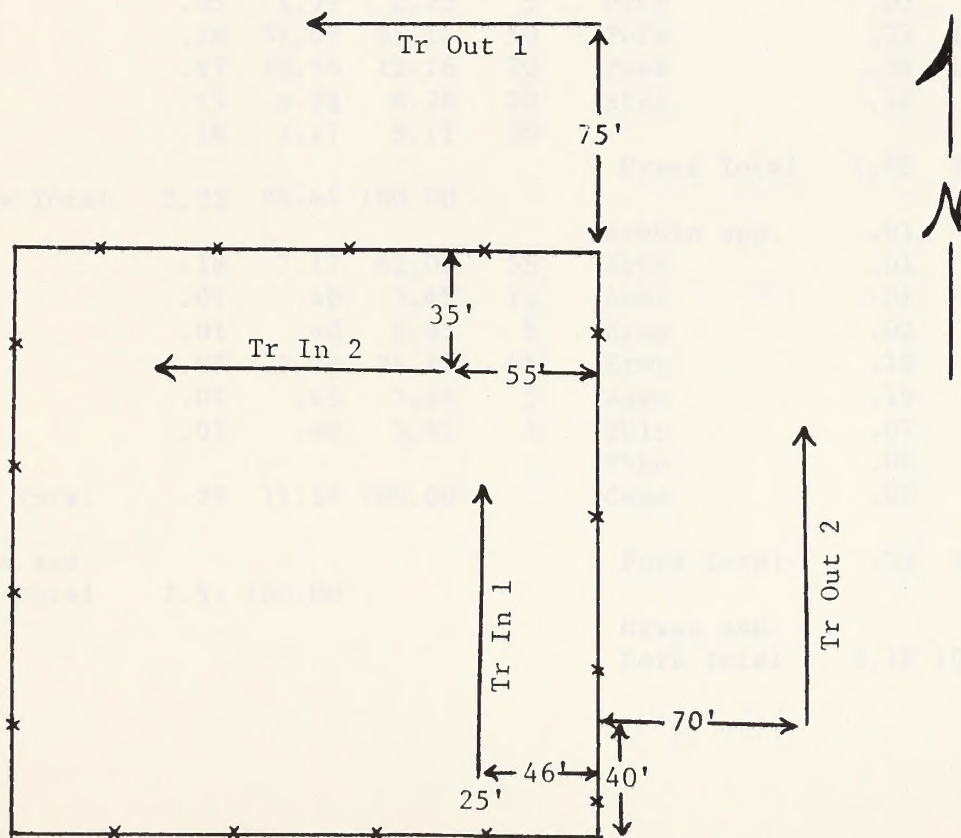
27 June 1968

	Cover %	Comp. % all G & F	Comp. % by Group	% Freq.		Cover %	Comp. % all G & F	Comp. % by Group	% Freq.
Avg.						Avg.			
Artr	3.89			45	Artr	5.66			40
Shrub Total	3.89				Atco	3.50			10
Agsm	.94	29.94	42.92	95	Shrub Total	9.16			
Cael	.01	.32	.46	10	Agsm	1.31	56.49	63.28	90
Kocr	.01	.32	.46	10	Cael	.12	5.17	5.80	35
Orhy	.14	4.46	6.39	30	Pose	.62	26.73	29.95	95
Pose	.61	19.43	27.85	85	Sihy	.02	.86	.97	15
Stco	.48	15.29	21.92	40	Grass Total	2.07	89.25	100.00	
Grass Total	2.19	69.76	100.00		Canu	.01	.43	4.00	5
Aspu	.02	.64	2.11	15	Crepis spp.	.01	.43	4.00	10
Eren	.04	1.27	4.21	40	Eren	.03	1.29	12.00	25
Erov	.03	.95	3.16	10	Erov	.01	.43	4.00	5
Haac	.10	3.18	10.53	5	Oppo	.03	1.29	12.00	5
Lofo	.01	.32	1.05	5	Phho	.03	1.29	12.00	30
Oppo	.50	15.92	52.62	15	Spco	.03	1.29	12.00	10
Phho	.13	4.14	13.68	65	Trgy	.02	.86	8.00	15
Phlo	.02	.64	2.11	20	Cora	.02	.86	8.00	20
Trgy	.01	.32	1.05	5	Lare	.03	1.29	12.00	30
Cora	.06	1.91	6.32	55	Unk.	.03	1.29	12.00	25
Lare	.03	.95	3.16	30	Forb Total	.25	10.75	100.00	
Forb Total	.95	30.24	100.00		Grass and Forb Total	2.32	100.00		
Grass and Forb Total	3.14	100.00							



Grazing Systems Study  
Baggs, Wyoming  
Powder Rim Allotment  
Pasture A

Code Number: 0408  
County: Sweetwater  
Legal Description: R95W T13N SW $\frac{1}{4}$  Sec 25  
Elevation: 7000  
Slope & Exposure: 4° EEN  
Vegetation Type: Big sagebrush - Bluebunch wheatgrass  
Treatment: Sprayed  
Fence Constructed: Aug., 1967 Livestock exclusion  
Transects Established: Aug., 1967  
Fenceline Photo Stations: From SE corner looking North - fence centered.  
From SE corner looking West - fence centered.  
(Views taken standing on corner cross braces)  
General Location: SE part of Pasture A. From Cherokee Trail, enter Pasture A at gate just W of hay corral and proceed 0.7 mile W on siesmograph trail. Exclosure lies N of trail.







POWDER RIM ALLOTMENT - PASTURE A

Exclosure

Artr-Agsm-Agsp Type - Sprayed  
E NE exp., 4° slope

Inside Tr. 1

Inside Tr. 2

20 Aug. 1967

20 Aug. 1967

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	.03			5	Artr	.53			15
Shrub Total	.03				Shrub Total	.53			
Agsm	.45	17.93	20.27	70	Agsm	.19	8.71	11.52	30
Agsp	.23	9.16	10.36	25	Agsp	.18	8.26	10.91	20
Cael	.03	1.19	1.35	5	Cafi	.20	9.17	12.12	10
Kocr	.08	3.19	3.60	15	Kocr	.31	14.22	18.79	25
Orhy	.05	1.99	2.25	5	Orhy	.05	2.29	3.03	5
Pofe	.78	31.07	35.14	50	Pofe	.23	10.55	13.94	30
Pose	.27	10.76	12.16	70	Pose	.39	17.89	23.63	55
Sihy	.15	5.98	6.76	20	Stco	.10	4.59	6.06	20
Stco	.18	7.17	8.11	30					
Grass Total	2.22	88.44	100.00		Grass Total	1.65	75.68	100.00	
Ermi	.18	7.17	62.07	55	Arabis spp.	.01	.46	1.89	5
Erpu	.01	.40	3.45	10	Arfe	.01	.46	1.89	5
Pefr	.01	.40	3.45	5	Asdi	.01	.46	1.89	5
Phlo	.07	2.79	24.13	65	Eren	.02	.92	3.77	10
Phho	.01	.40	3.45	5	Ermi	.14	6.42	26.42	30
Cora	.01	.40	3.45	5	Haac	.19	8.72	35.84	25
Forb Total	.29	11.56	100.00		Phlo	.07	3.21	13.21	65
Grass and Forb Total	2.51	100.00			Phho	.06	2.75	11.32	10
					Cora	.02	.92	3.77	15
					Forb Total	.53	24.32	100.00	
					Grass and Forb Total	2.18	100.00		





POWDER RIM ALLOTMENT - PASTURE A

Exclosure

Artr-Agsm-Agsp Type - Sprayed  
E NE exp., 4° slope

Inside Tr. 1

Inside Tr. 2

22 June 1968

22 June 1968

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	.15			10	Artr	1.10			10
Shrub Total	.15				Shrub Total	1.10			
Agsm	.69	22.85	25.46	80	Agsm	.29	12.34	16.02	40
Agsp	.28	9.27	10.33	20	Agsp	.21	8.94	11.60	20
Cael	.01	.33	.37	5	Cafi	.20	8.51	11.05	10
Kocr	.08	2.65	2.95	10	Kocr	.18	7.66	9.94	15
Orhy	.03	.99	1.11	5	Orhy	.05	2.13	2.76	5
Pofe	1.05	34.78	38.75	50	Pofe	.28	11.91	15.47	25
Pose	.28	9.27	10.33	85	Pose	.46	19.56	25.43	55
Sihy	.11	3.64	4.06	15	Sihy	.01	.43	.55	5
Stco	.18	5.96	6.64	30	Stco	.13	5.53	7.18	15
Grass Total	2.71	89.74	100.00		Grass Total	1.81	77.01	100.00	
Alte	.02	.66	6.45	15	Alte	.03	1.28	5.56	25
Eren	.03	.99	9.68	5	Arabis spp.	.01	.43	1.85	5
Ermi	.14	4.64	45.15	55	Arfe	.01	.43	1.85	5
Erpu	.01	.33	3.23	5	Eren	.02	.85	3.70	15
Phlo	.08	2.65	25.80	60	Ermi	.13	5.53	24.07	40
Phho	.01	.33	3.23	5	Erov	.01	.43	1.85	5
Sein	.01	.33	3.23	5	Haac	.17	7.23	31.49	25
Cora	.01	.33	3.23	10	Phlo	.08	3.40	14.81	75
Forb Total	.31	10.26	100.00		Phho	.03	1.28	5.56	10
Grass and Forb Total	3.02	100.00			Sein	.01	.43	1.85	5
					Cora	.04	1.70	7.41	35
					Forb Total	.54	22.99	100.00	
					Grass and Forb Total	2.35	100.00		



POWDER RIM ALLOTMENT - PASTURE A

Exclosure

Artr-Agsm-Agsp Type - Sprayed  
E NE exp., 4° slope

Outside Tr. 1

Outside Tr. 2

20 Aug. 1967

20 Aug. 1967

	Cover %	Comp. % all G & F	Comp. % by Group	% Freq.		Cover %	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	.20			10	Artr	1.50			25
Shrub Total	.20				Shrub Total	1.50			
Agsm	.37	14.23	15.16	55	Agsm	.51	24.87	35.17	75
Agsp	.58	22.32	23.76	35	Agsp	.16	7.80	11.03	15
Cafi	.80	30.79	32.79	15	Cael	.01	.49	.69	5
Kocr	.03	1.15	1.23	5	Kocr	.20	9.76	13.79	20
Orhy	.10	3.85	4.10	10	Orhy	.03	1.46	2.07	5
Pofe	.05	1.92	2.05	5	Pofe	.28	13.66	19.31	35
Pose	.16	6.15	6.56	45	Pose	.14	6.83	9.66	35
Stco	.35	13.46	14.35	25	Sihy	.06	2.93	4.14	15
					Stco	.06	2.93	4.14	10
Grass Total	2.44	93.87	100.00		Grass Total	1.45	70.73	100.00	
Asdi	.01	.38	6.25	5	Asdi	.01	.49	1.67	5
Aspu	.02	.77	12.50	15	Ermi	.43	20.97	71.67	45
Ermi	.01	.38	6.25	5	Haac	.05	2.44	8.33	5
Haac	.03	1.15	18.75	5	Phlo	.08	3.90	13.33	80
Pefr	.01	.38	6.25	5	Cora	.02	.98	3.33	20
Phlo	.04	1.54	25.00	35	Unk.	.01	.49	1.67	5
Phho	.03	1.15	18.75	5					
Cora	.01	.38	6.25	5					
Forb Total	.16	6.13	100.00		Forb Total	.60	29.27	100.00	
Grass and Forb Total	2.60	100.00			Grass and Forb Total	2.05	100.00		





POWDER RIM ALLOTMENT - PASTURE A

Exclosure

Artr-Agsm-Agsp Type - Sprayed  
E NE exp., 4<sup>0</sup> slope

Outside Tr. 1

Outside Tr. 2

22 June 1968

22 June 1968

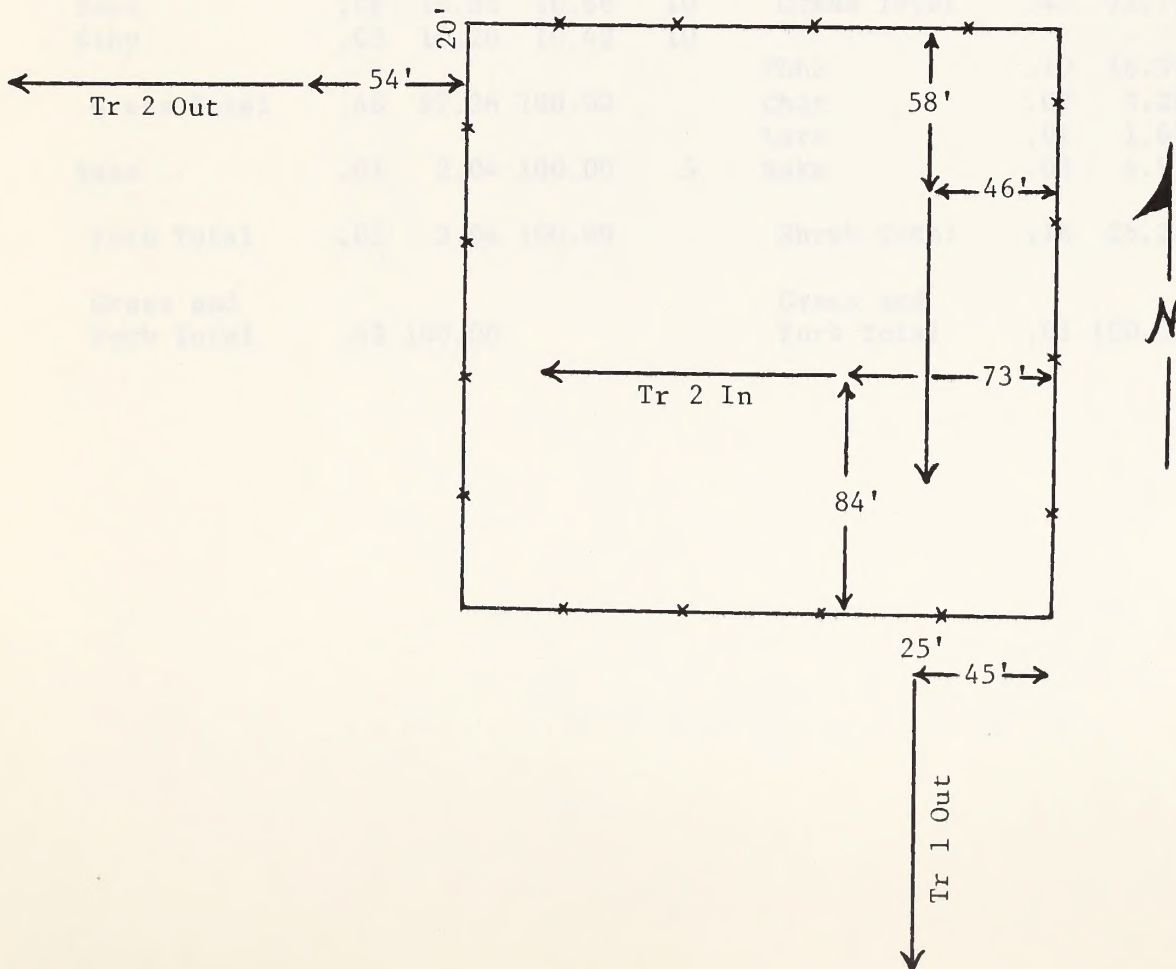
	Cover %	Comp. % all G & F	Comp. % by Group	% Freq.		Cover %	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	.10			5	Artr	1.80			25
Shrub Total	.10				Shrub Total	1.80			
Agsm	.76	25.96	27.54	75	Agsm	.97	32.64	40.59	85
Agsp	.53	18.09	19.20	30	Agsp	.16	5.39	6.69	15
Cafi	.80	27.30	28.99	15	Cael	.06	2.02	2.51	10
Kocr	.03	1.02	1.09	5	Kocr	.25	8.42	10.46	25
Orhy	.15	5.12	5.43	10	Orhy	.05	1.68	2.09	5
Pofe	.05	1.71	1.81	5	Pofe	.49	16.50	20.50	45
Pose	.10	3.41	3.62	40	Pose	.22	7.41	9.21	55
Stco	.34	11.60	12.32	35	Sihy	.11	3.70	4.60	20
					Stco	.08	2.69	3.35	15
Grass Total	2.76	94.21	100.00		Grass Total	2.39	80.45	100.00	
Arfe	.01	.34	5.88	5	Alte	.01	.34	1.72	5
Asdi	.02	.68	11.76	15	Anro	.01	.34	1.72	5
Aspu	.01	.34	5.88	10	Asdi	.01	.34	1.72	5
Ermi	.01	.34	5.88	10	Aspu	.01	.34	1.72	5
Erov	.01	.34	5.88	5	Crfc	.01	.34	1.72	5
Haac	.03	1.02	17.65	5	Eren	.01	.34	1.72	5
Lofo	.01	.34	5.88	5	Ermi	.19	6.40	32.78	60
Phlo	.04	1.37	23.55	40	Haac	.10	3.37	17.24	5
Phho	.01	.34	5.88	5	Phlo	.20	6.73	34.49	95
Cora	.01	.34	5.88	5	Sein	.01	.34	1.72	10
Depi	.01	.34	5.88	5	Cora	.02	.67	3.45	20
Forb Total	.17	5.79	100.00		Forb Total	.58	19.55	100.00	
Grass and Forb Total	2.93	100.00			Grass and Forb Total	2.97	100.00		





Grazing Systems Study  
Baggs, Wyoming  
Powder Rim Allotment  
Pasture B  
Exclosure I

Code Number: 0409  
County: Sweetwater  
Legal Description: R95W T13N SW $\frac{1}{4}$  Sec 36  
Elevation: 6500  
Slope & Exposure: Flat  
Vegetation type: Big sagebrush - saltbush  
Treatment: None  
Fence constructed: Aug., 1967 Livestock exclusion.  
Transects established: Aug., 1967  
Fenceline Photo Stations: From NE corner looking West - fence centered.  
From NE corner looking South - fence centered.  
From SE corner looking West - fence centered.  
(Views taken standing on corner cross braces)  
General Location: NE part of Pasture B on flats below Powder Rim.  
From Cherokee Trail take road to S just W of hay corral; turn to right at base of Rim. Exclosure 1/8 mile W of B-D cattleguard on S side of road.





POWDER RIM ALLOTMENT - PASTURE B

Exclosure I

Atga & Artr Types  
0 slope

Outside Tr. 1

Inside Tr. 1

23 Aug. 1967

22 Aug. 1967

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Arsp	3.31			60	Arsp	.55			10
Artr	2.50			5	Atga	4.47			65
Atga	2.19			55					
Chgr	.05			5	Shrub Total	5.02			
Shrub Total	8.05				Agsm	.27	44.27	60.00	30
					Pose	.08	13.11	17.78	5
Agsm	.24	48.98	50.00	35	Sihy	.10	16.39	22.22	15
Orhy	.11	22.45	22.92	20					
Pose	.08	16.33	16.66	10	Grass Total	.45	73.77	100.00	
Sihy	.05	10.20	10.42	10					
Grass Total	.48	97.96	100.00		Phho	.10	16.39	62.50	5
					Chat	.02	3.28	12.50	15
Saka	.01	2.04	100.00	5	Lare	.01	1.64	6.25	5
					Saka	.03	4.92	18.75	30
Forb Total	.01	2.04	100.00		Shrub Total	.16	26.23	100.00	
Grass and Forb Total	.49	100.00			Grass and Forb Total	.61	100.00		





POWDER RIM ALLOTMENT - PASTURE B

Exclosure I

Atga & Artr Types  
0 slope

Outside Tr. 1

Inside Tr. 1

21 June 1968

21 June 1968

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Arsp	7.48			60	Arsp	.86			20
Artr	2.80			10	Atga	7.56			65
Atga	1.98			55					
Chvi	.20			5	Shrub Total	8.42			
Shrub Total	12.46				Agsm	.26	47.27	53.07	25
					Orhy	.01	1.82	2.04	10
Agsm	.48	53.34	53.94	35	Pose	.05	9.09	10.20	10
Orhy	.18	20.00	20.22	20	Sihy	.17	30.91	34.69	30
Pose	.13	14.44	14.61	10					
Sihy	.10	11.11	11.23	10	Grass Total	.49	89.09	100.00	
Grass Total	.89	98.89	100.00		Depi	.01	1.82	16.67	5
					Lare	.04	7.27	66.66	35
Lare	.01	1.11	100.00	30	Saka	.01	1.82	16.67	5
Forb Total	.01	1.11	100.00		Forb Total	.06	10.91	100.00	
Grass and Forb Total	.90	100.00			Grass and Forb Total	.55	100.00		





POWDER RIM ALLOTMENT - PASTURE B

Exclosure I

Atga & Artr Types  
0 slope

Outside Tr. 2

Inside Tr. 2

1 Sept. 1967

27 Aug. 1967

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Arsp	1.80			15	Artr	15.45			50
Artr	8.73			30	Atga	.88			15
Atga	.03			5	Koam	.01			5
Shrub Total	10.56				Shrub Total	16.34			
Agsm	.70	51.46	52.63	65	Agsm	.78	69.03	74.28	80
Orhy	.12	8.82	9.02	25	Orhy	.03	2.65	2.86	5
Pose	.31	22.79	23.31	40	Pose	.13	11.50	12.38	10
Sihy	.20	14.71	15.04	15	Sihy	.11	9.73	10.48	20
Grass Total	1.33	97.78	100.00		Grass Total	1.05	92.91	100.00	
Pefr	.01	.74	33.33	5	Arabis spp.	.01	.89	12.50	5
Phho	.01	.74	33.33	5	Phho	.01	.89	12.50	10
Saka	.01	.74	33.34	10	Chat	.02	1.77	25.00	15
Forb Total	.03	2.22	100.00		Lare	.01	.89	12.50	10
Grass and Forb Total	1.36	100.00			Saka	.03	2.65	37.50	10
					Forb Total	.08	7.09	100.00	
					Grass and Forb Total	1.13	100.00		



POWDER RIM ALLOTMENT - PASTURE B

Exclosure I

Atga & Artr Types  
0 slope

Outside Tr.2

Inside Tr. 2

21 June 1968

21 June 1968

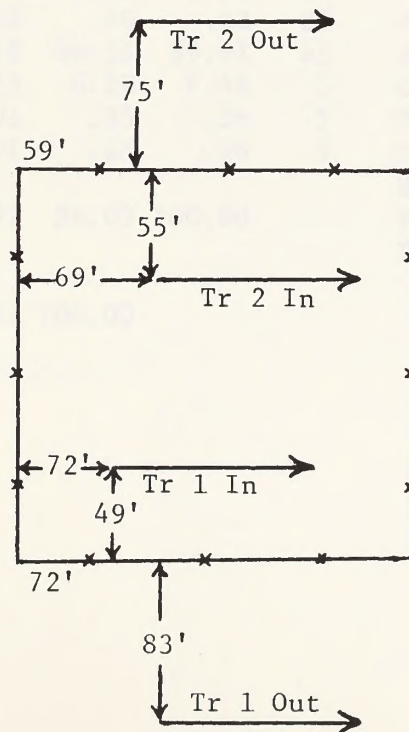
	Cover %	Comp. % all G & F	Comp. % by Group	% Freq.		Cover %	Comp. % all G & F	Comp. % by Group	% Freq.
	Avg.					Avg.			
Arsp	2.56			20	Artr	19.35			50
Artr	9.88			30	Atga	1.51			20
Atga	.04			15					
Shrub Total	12.48				Shrub Total	20.86			
Agsm	.81	37.85	38.94	60	Agsm	.92	63.90	68.66	85
Orhy	.18	8.41	8.65	20	Orhy	.05	3.47	3.73	5
Pose	.86	40.19	41.35	35	Pose	.21	14.58	15.67	20
Sihy	.23	10.74	11.06	20	Sihy	.16	11.11	11.94	25
Grass Total	2.08	97.19	100.00		Grass Total	1.34	93.06	100.00	
Phho	.01	.47	16.67	5	Arabis spp.	.02	1.39	20.00	15
Depi	.01	.47	16.67	5	Maca	.01	.69	10.00	5
Chat	.01	.47	16.67	5	Phho	.04	2.78	40.00	20
Lare	.03	1.40	49.99		Depi	.01	.69	10.00	10
Forb Total	.06	2.81	100.00		Lare	.02	1.39	20.00	20
Grass and Forb Total	2.14	100.00			Forb Total	.10	6.94	100.00	
					Grass and Forb Total	1.44	100.00		





Grazing Systems Study  
Baggs, Wyoming  
Powder Rim Allotment  
Pasture B  
Exclosure II

Code Number: 0410  
County: Sweetwater  
Legal Description: R95W T12N NW¼ Sec 10  
Elevation: 6500  
Slope & Exposure: 4°  
Vegetation Type: Juniper  
Treatment: None  
Fence Constructed: Sept., 1967 Game and Livestock exclusion.  
Transects established: June, 1968  
Fenceline Photo Stations: From SW corner looking East - fence centered.  
From SW corner looking North - fence centered.  
(Views taken standing on corner cross braces)  
General Location: Central part of Pasture B. Take road leading S from Cherokee Trail at point where road to Chimney Spring branches off and proceed approximately 2¼ miles south. Exclosure is 75 ft. E of road in juniper stand on S-facing portion of ridge.







POWDER RIM ALLOTMENT - PASTURE B

Exclosure II

Game & Livestock Exclusion

Juos Type

S exp., 4° slope

Inside Tr. 1

Inside Tr. 2

16 June 1968

16 June 1968

	Cover %	Comp. % all G & F	Comp. % by Group	% Freq.		Cover %	Comp. % all G & F	Comp. % by Group	% Freq.
	Avg.					Avg.			
Juos	6.00			10	Arno	.01			5
Shrub Total	6.00				Juos	32.50			50
					Shrub Total	32.51			
Agsp	.13	3.23	81.25	15	Agsp	.10	4.67	71.43	5
Cafi	.03	.74	18.75	5	Pose	.01	.47	7.14	5
Grass Total	.16	3.97	100.00		Sihiy	.03	1.40	21.43	5
Arabis spp.	.01	.25	.26	5	Grass Total	.14	6.54	100.00	
Arfe	.09	2.23	2.33	20	Arabis spp.	.01	.47	.50	5
Eren	.02	.50	.52	20	Arfe	.06	2.80	3.00	20
Haac	3.48	86.35	89.91	65	Crfc	.01	.47	.50	5
Oppo	.25	6.20	6.46	5	Eren	.04	1.87	2.00	35
Pefr	.01	.25	.26	5	Giag	.01	.47	.50	5
Unk.	.01	.25	.26	5	Haac	1.83	85.51	91.50	55
Forb Total	3.87	96.03	100.00		Pefr	.01	.47	.50	5
Grass and					Phho	.03	1.40	1.50	10
Forb Total	4.03	100.00			Forb Total	2.00	93.46	100.00	
					Grass and				
					Forb Total	2.14	100.00		



POWDER RIM ALLOTMENT - PASTURE B

Exclosure II

Game & Livestock Exclusion

Juos Type

S exp., 4° slope

Outside Tr. 1

Outside Tr. 2

16 June 1968

16 June 1968

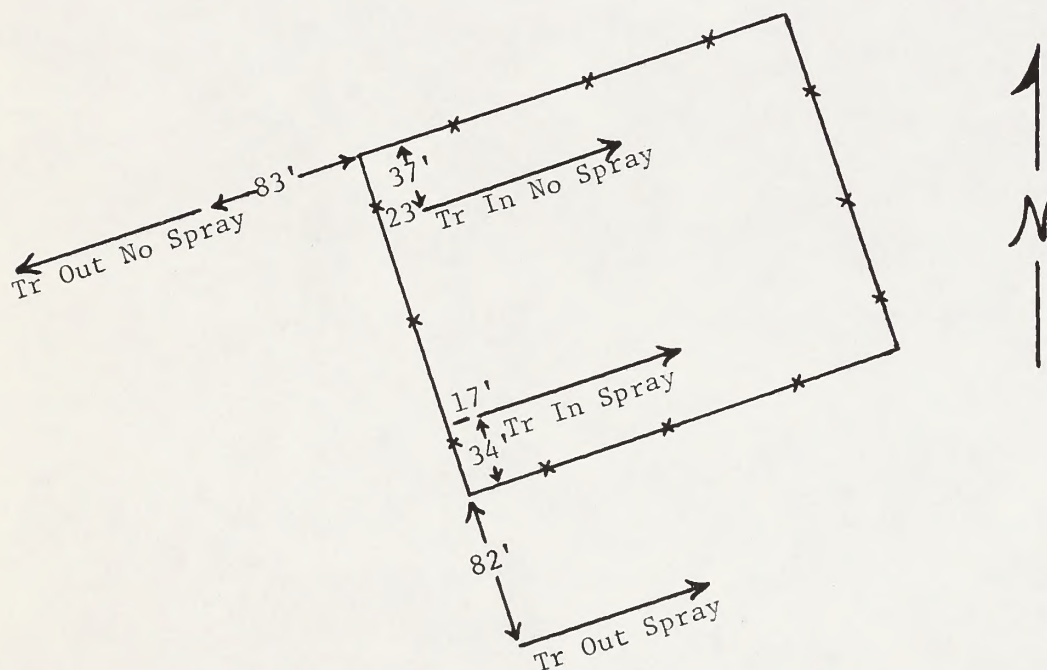
	Cover %	Comp. % all G & F	Comp. % by Group	% Freq.		Cover %	Comp. % all G & F	Comp. % by Group	% Freq.
Avg.					Avg.				
Arno	.75			10	Arno	.61			15
Juos	27.25			45	Juos	21.00			35
Shrub Total	28.00				Shrub Total	21.61			
Agsp	.35	33.02	92.11	15	Agsp	.15	5.15	65.22	15
Pose	.03	2.83	7.89	5	Pose	.03	1.03	13.04	10
					Stco	.05	1.72	21.74	5
Grass Total	.38	35.85	100.00		Grass Total	.23	7.90	100.00	
Arfe	.01	.94	1.47	5	Arfe	.07	2.41	2.61	25
Asdi	.01	.94	1.47	10	Asdi	.01	.34	.37	5
Eren	.02	1.88	2.94	15	Aspu	.01	.34	.37	5
Ermi	.01	.94	1.47	5	Assp	.03	1.03	1.12	5
Haac	.61	57.57	89.71	20	Crfc	.01	.34	.37	10
Phho	.02	1.88	2.94	15	Eren	.05	1.72	1.87	25
Forb Total	.68	64.15	100.00		Haac	2.48	85.24	92.55	55
Grass and					Pefr	.01	.34	.37	5
Forb Total	1.06	100.00			Phho	.01	.34	.37	5
					Forb Total	2.68	92.10	100.00	
					Grass and				
					Forb Total	2.91	100.00		





Grazing Systems Study  
Baggs, Wyoming  
Powder Rim Allotment  
Pasture C

Code Number: 0606  
County: Carbon  
Legal Description: R93W T13N SW $\frac{1}{4}$  Sec 28  
Elevation: 6300  
Slope & Exposure: Flat  
Vegetation Type: Big sagebrush - western wheatgrass  
Treatment: No spray -  $\frac{1}{2}$ ; Sprayed -  $\frac{1}{2}$   
Fence Constructed: Aug., 1967 Livestock exclusion  
Transects Established: Aug., 1967  
Fenceline Photo Stations: From SW corner looking North - fence centered.  
From SE corner looking North - fence centered.  
(Views taken standing on corner cross braces)  
General Location: NW part of Pasture C. Enclosure is 1/8 mile E  
of main road from Baggs approximately 2 miles N  
of Red Draw bridge.







POWDER RIM ALLOTMENT - PASTURE C

Exclosure

Artr-Agsm Type - Sprayed  
0 slope

Outside

Inside

26 Aug. 1967

26 Aug. 1967

	Cover %	Comp. % all G & F	Comp. % by Group	% Freq.		Cover %	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	2.35			35	Artr	.25			15
Shrub Total	2.35				Chvi	.75			5
Agsm	.01	.50	1.69	10	Shrub Total	1.00			
Pose	.21	10.50	35.61	40	Agsm	.05	9.81	14.29	25
Sihy	.18	9.00	30.51	35	Pose	.05	9.81	14.29	5
Stco	.18	9.00	30.50	20	Sihy	.04	7.84	11.43	20
Feoc	.01	.50	1.69	10	Stco	.16	31.37	45.70	20
Grass Total	.59	29.50	100.00		Feoc	.05	9.81	14.29	25
Eren	.05	2.50	3.55	50	Grass Total	.35	68.64	100.00	
Erov	.10	5.00	7.09	5	Eren	.01	1.96	6.25	10
Maca	.01	.50	.71	5	Phho	.02	3.92	12.50	20
Oppo	1.03	51.50	73.04	10	Alde	.06	11.76	37.50	55
Phho	.05	2.50	3.55	25	Erce	.03	5.88	18.75	25
Alde	.14	7.00	9.93	95	Gisi	.03	5.88	18.75	30
Gisi	.01	.50	.71	5	Lare	.01	1.96	6.25	5
Lare	.02	1.00	1.42	15	Forb Total	.16	31.36	100.00	
Forb Total	1.41	70.50	100.00		Grass and Forb Total	.51	100.00		
Grass and Forb Total	2.00	100.00							



POWDER RIM ALLOTMENT - PASTURE C

Exclosure

Artr-Agsm Type - Sprayed  
0 slope

Outside

Inside

27 June 1968

27 June 1968

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	2.48			40	Artr	.65			20
Atco	.02			5	Chvi	2.03			10
Shrub Total	2.50				Shrub Total	2.68			
Agsm	.03	2.48	4.11	10	Agsm	.07	11.48	17.50	25
Pose	.19	15.70	26.03	40	Pose	.01	1.64	2.50	5
Sihy	.22	18.18	30.14	40	Sihy	.09	14.75	22.50	45
Stco	.28	23.14	38.35	25	Stco	.19	31.14	47.50	30
Feoc	.01	.83	1.37	10	Brte	.01	1.64	2.50	5
					Feoc	.03	4.92	7.50	25
Grass Total	.73	60.33	100.00		Grass Total	.40	65.57	100.00	
Eren	.05	4.13	10.42	45	Eren	.01	1.64	4.76	5
Erov	.03	2.48	6.25	5	Phho	.05	8.20	23.81	30
Maca	.01	.83	2.08	5	Alde	.13	21.31	61.91	90
Oppo	.23	19.00	47.92	10	Lare	.01	1.64	4.76	10
Phho	.04	3.31	8.33	35	Oeco	.01	1.64	4.76	5
Alde	.11	9.09	22.92	90					
Lare	.01	.83	2.08	10	Forb Total	.21	34.43	100.00	
Forb Total	.48	39.67	100.00		Grass and Forb Total	.61	100.00		
Grass and Forb Total	1.21	100.00							





POWDER RIM ALLOTMENT - PASTURE C

Exclosure

Artr-Agsm Type - No Spray  
0 slope

Outside

Inside

26 Aug. 1967

26 Aug. 1967

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	5.88			60	Arsp	.45			15
Atco	.01			5	Artr	6.66			55
Chvi	1.50			5	Atco	1.50			10
					Chvi	.75			10
Shrub Total	7.39				Shrub Total	9.36			
Agsm	.03	3.95	21.43	5	Agsm	.09	5.45	18.00	20
Pose	.04	5.26	28.57	20	Orhy	.03	1.82	6.00	5
Sihy	.06	7.89	42.86	20	Pose	.02	1.21	4.00	15
Feoc	.01	1.32	7.14	10	Sihy	.21	12.73	42.00	40
					Stco	.15	9.09	30.00	5
Grass Total	.14	18.42	100.00		Grass Total	.50	30.30	100.00	
Eren	.07	9.21	11.29	70	Eren	.04	2.42	3.48	40
Maca	.02	2.63	3.22	15	Oppo	.75	45.46	65.21	5
Phho	.44	57.89	70.98	65	Phho	.26	15.76	22.61	45
Spco	.02	2.63	3.22	20	Spco	.01	.61	.87	5
Alde	.06	7.90	9.68	60	Alde	.09	5.45	7.83	85
Gisi	.01	1.32	1.61	5					
Forb Total	.62	81.58	100.00		Forb Total	1.15	69.70	100.00	
Grass and Forb Total	.76	100.00			Grass and Forb Total	1.65	100.00		





POWDER RIM ALLOTMENT - PASTURE C

Exclosure

Artr-Agsm Type - No Spray,  
0 slope

Outside

Inside

27 June 1968

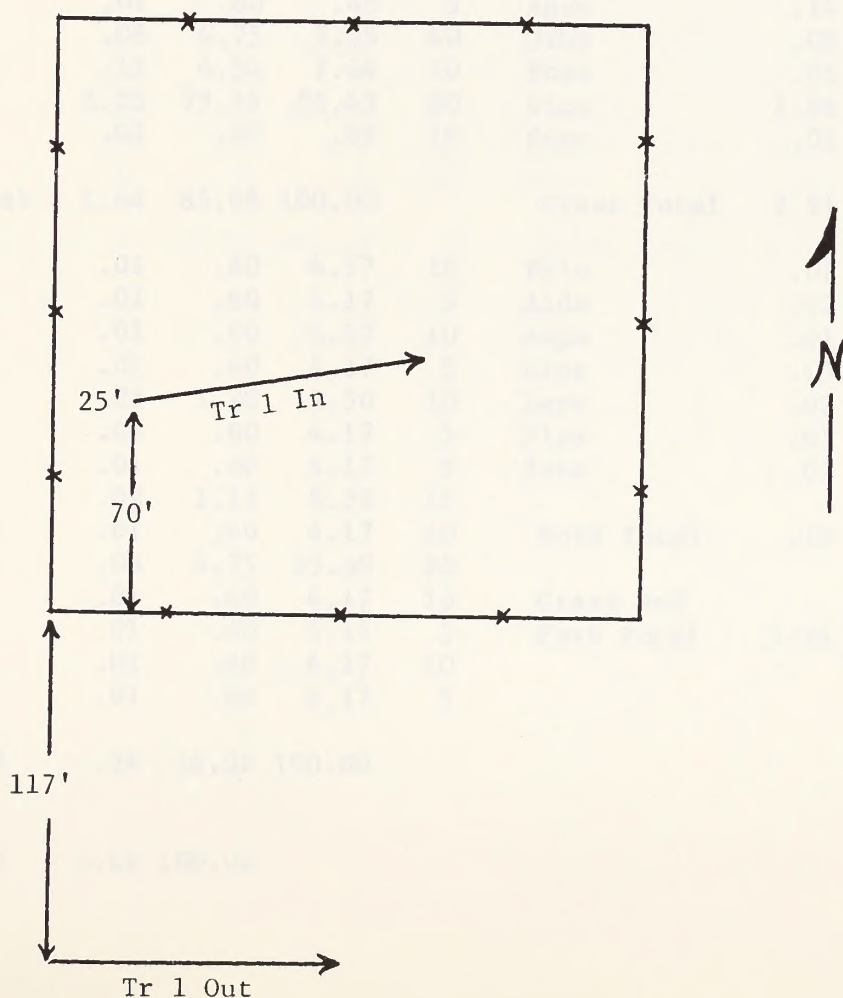
27 June 1968

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	7.10			55	Arsp	.45			15
Atco	.01			3	Artr	7.00			45
Chvi	1.01			10	Atco	.85			10
					Chvi	.80			10
Shrub Total	8.12				Shrub Total	9.10			
Agsm	.03	6.12	18.75	5	Agsm	.11	12.50	20.36	20
Pose	.06	12.24	37.50	20	Orhy	.03	3.41	5.56	10
Sihy	.07	14.29	43.75	30	Pose	.03	3.41	5.56	10
Grass Total	.16	32.65	100.00		Sihy	.27	30.68	50.00	55
					Stco	.10	11.36	18.52	5
Arabis spp.	.01	2.04	3.03	5	Grass Total	.54	61.36	100.00	
Eren	.08	16.33	24.24	75	Arabis spp.	.01	1.14	2.94	5
Erov	.01	2.04	3.03	5	Eren	.05	5.68	14.71	50
Phho	.14	28.58	42.43	75	Lofo	.01	1.14	2.94	5
Sili	.01	2.04	3.03	5	Maca	.01	1.14	2.94	5
SpcO	.04	8.16	12.12	20	Oppo	.10	11.36	29.41	5
Alde	.04	8.16	12.12	40	Phho	.10	11.36	29.41	35
Forb Total	.33	67.35	100.00		Alde	.06	6.82	17.65	55
Grass and Forb Total	.49	100.00			Forb Total	.34	38.64	100.00	
					Grass and Forb Total	.88	100.00		



Grazing Systems Study  
Baggs, Wyoming  
Powder Rim Allotment  
Pasture D

Code Number: 0407  
County: Sweetwater  
Legal Description: R94W T13N SW $\frac{1}{4}$  Sec 26  
Elevation: 6300  
Slope & Exposure: 2° N  
Vegetation Type: Shadscale  
Treatment: None  
Fence Constructed: Aug., 1967 Livestock Exclusion  
Transects established: Sept., 1967  
Fenceline Photo Stations: From SW corner looking North - fence centered.  
From SW corner looking East - fence centered.  
(Views taken standing on corner cross braces)  
General Location: NE part of Pasture D. Enter Pasture D at NE corner W of Sand Creek bridge and follow trail S along D-C fence and then W toward base of high bluffs. Exclosure adjacent to trail approximately 2 miles from gate.







POWDER RIM ALLOTMENT - PASTURE D

Exclosure

Atco Type  
N exp., 2° slope

Outside

Inside

8 Sept. 1967

8 Sept. 1967

	Cover %	Comp. % all G & F	Comp. % by Group	% Freq.		Cover %	Comp. % all G & F	Comp. % by Group	% Freq.
	Avg.					Avg.			
Artr	4.17			55	Artr	2.83			30
Atco	1.33			15	Atco	.01			5
Chvi	.09			20	Atga	.15			5
Eula	.05			5	Chvi	.10			5
Shrub Total	5.64				Shrub Total	3.09			
Agsm	.01	.60	.69	5	Agsm	.14	5.98	6.33	25
Pose	.08	4.75	5.55	40	Orhy	.05	2.14	2.26	5
Spcr	.11	6.54	7.64	10	Pose	.05	2.14	2.26	30
Stco	1.23	73.19	85.43	60	Stco	1.96	83.75	88.70	85
Feoc	.01	.60	.69	10	Feoc	.01	.43	.45	10
Grass Total	1.44	85.68	100.00		Grass Total	2.21	94.44	100.00	
Chdo	.01	.60	4.17	10	Phlo	.01	.43	7.69	10
Crfl	.01	.60	4.17	5	Alde	.02	.85	15.38	15
Eren	.01	.60	4.17	10	Asge	.01	.43	7.69	5
Ermi	.01	.60	4.17	5	Erce	.05	2.14	38.48	45
Lepu	.03	1.78	12.50	10	Lare	.02	.85	15.38	15
Phlo	.01	.60	4.17	5	Plpa	.01	.43	7.69	5
Phho	.01	.60	4.17	5	Saka	.01	.43	7.69	5
Alde	.02	1.19	8.33	15					
Asge	.01	.60	4.17	10	Forb Total	.13	5.56	100.00	
Erce	.08	4.75	33.30	80					
Gisi	.01	.60	4.17	10	Grass and				
Lare	.01	.60	4.17	5	Forb Total	2.34	100.00		
Plpa	.01	.60	4.17	10					
Unk.	.01	.60	4.17	5					
Forb Total	.24	14.32	100.00						
Grass and									
Forb Total	1.68	100.00							





POWDER RIM ALLOTMENT - PASTURE D

Exclosure

Atco Type  
N exp., 2° slope

Outside

Inside

3 July 1968

3 July 1968

	Cover %	Comp. % all G & F	Comp. % by Group	% Freq.		Cover %	Comp. % all G & F	Comp. % by Group	% Freq.
	Avg.					Avg.			
Artr	2.63			55	Arsp	.05			5
Atco	1.05			10	Artr	2.95			30
Chvi	.33			20	Atco	.18			15
Eula	.05			5	Atga	.20			5
					Chvi	.20			5
Shrub Total	4.06				Shrub Total	3.58			
Agsm	.03	2.10	2.31	5	Agsm	.18	8.29	8.53	25
Pose	.13	9.09	10.00	40	Orhy	.10	4.61	4.74	15
Spcr	.01	.70	.77	5	Pose	.04	1.84	1.90	20
Stco	1.11	77.61	85.38	60	Stco	1.78	82.04	84.36	90
Brte	.01	.70	.77	5	Feoc	.01	.46	.47	5
Feoc	.01	.70	.77	10					
Grass Total	1.30	90.90	100.00		Grass Total	2.11	97.24	100.00	
Chdo	.02	1.40	15.38	15	Aspu	.01	.46	16.67	5
Eren	.03	2.10	23.10	25	Eren	.01	.46	16.66	10
Lelu	.01	.70	7.69	10	Erov	.01	.46	16.67	5
Lepu	.01	.70	7.69	10	Phlo	.01	.46	16.67	10
Phlo	.01	.70	7.69	10	Erce	.01	.46	16.67	5
Phho	.01	.70	7.69	5	Gisi	.01	.46	16.66	5
Spco	.01	.70	7.69	5					
Alde	.01	.70	7.69	10	Forb Total	.06	2.76	100.00	
Gisi	.01	.70	7.69	5					
Plpa	.01	.70	7.69	5	Grass and Forb Total	2.17	100.00		
Forb Total	.13	9.10	100.00						
Grass and Forb Total	1.43	100.00							



PERMANENT 10' X 100' BELT AND 100 LINE-POINT TRANSECTS  
AT ENCLOSURES IN JUNIPER TYPE  
(Figures represent average of two transects)  
June, 1968

Shrub & Tree Canopy Cover %	Poison Buttes Enclosure II				Powder Rim Pasture B Enclosure II	
	Game & Livestock Exclusion		Livestock Exclusion		Game & Livestock Exclusion	
	Inside	Outside	Inside	Outside	Inside	Outside
Juos	16.0	37.0	12.5	23.0	19.0	18.0
Cemo	2.0					
Arno	2.0	3.0			0.5	2.5
Artr			14.0	8.0		
Total	20.0	40.0	26.5	31.0	19.5	20.5
Ground Cover Classes %						
Bare	65.0	55.5	55.0	54.5	70.5	73.5
Litter	23.5	35.5	26.0	36.5	24.0	16.5
Debris	2.0	2.0	5.5	1.0	2.0	1.0
Rock			0.5		1.5	1.0
Herbaceous	5.0	3.5	1.0	3.0	1.0	3.0
Woody	4.5	3.5	12.0	5.0	1.0	5.0
Total	100.0	100.0	100.0	100.0	100.0	100.0
Number of Plants per Acre						
Juos - Mature	240	327	218	261	240	327
Young	0	22	22	44	44	0
Seedling	0	0	44	44	0	0
Arno - Mature	2766	8080	0	0	653	2243
Seedling	0	327	0	0	87	109
Artr - Mature	0	0	7993	3790	0	0
Seedling	0	0	1742	305	0	0
Cemo - Mature	1416	414	0	0	0	0
Seedling	0	22	0	0	0	0
Putr - Mature	22	22	0	0	0	0
Seedling	0	0	0	0	0	0
Atco - Mature	0	0	0	0	0	87
Seedling	0	0	0	0	0	0
Total	4444	9214	10019	4444	1024	2766



Experiment 10' x 100' each and 100' x 100' each  
 at 100' x 100' each and 100' x 100' each  
 (Average of 100' x 100' each and 100' x 100' each)  
 June, 1952

Group 1			Group 2			Group 3			Group 4			Group 5			Group 6			Group 7			Group 8			Group 9			Group 10			Group 11			Group 12			Group 13			Group 14			Group 15			Group 16			Group 17			Group 18			Group 19			Group 20			Group 21			Group 22			Group 23			Group 24			Group 25			Group 26			Group 27			Group 28			Group 29			Group 30			Group 31			Group 32			Group 33			Group 34			Group 35			Group 36			Group 37			Group 38			Group 39			Group 40			Group 41			Group 42			Group 43			Group 44			Group 45			Group 46			Group 47			Group 48			Group 49			Group 50			Group 51			Group 52			Group 53			Group 54			Group 55			Group 56			Group 57			Group 58			Group 59			Group 60			Group 61			Group 62			Group 63			Group 64			Group 65			Group 66			Group 67			Group 68			Group 69			Group 70			Group 71			Group 72			Group 73			Group 74			Group 75			Group 76			Group 77			Group 78			Group 79			Group 80			Group 81			Group 82			Group 83			Group 84			Group 85			Group 86			Group 87			Group 88			Group 89			Group 90			Group 91			Group 92			Group 93			Group 94			Group 95			Group 96			Group 97			Group 98			Group 99			Group 100			Group 101			Group 102			Group 103			Group 104			Group 105			Group 106			Group 107			Group 108			Group 109			Group 110			Group 111			Group 112			Group 113			Group 114			Group 115			Group 116			Group 117			Group 118			Group 119			Group 120			Group 121			Group 122			Group 123			Group 124			Group 125			Group 126			Group 127			Group 128			Group 129			Group 130			Group 131			Group 132			Group 133			Group 134			Group 135			Group 136			Group 137			Group 138			Group 139			Group 140			Group 141			Group 142			Group 143			Group 144			Group 145			Group 146			Group 147			Group 148			Group 149			Group 150			Group 151			Group 152			Group 153			Group 154			Group 155			Group 156			Group 157			Group 158			Group 159			Group 160			Group 161			Group 162			Group 163			Group 164			Group 165			Group 166			Group 167			Group 168			Group 169			Group 170			Group 171			Group 172			Group 173			Group 174			Group 175			Group 176			Group 177			Group 178			Group 179			Group 180			Group 181			Group 182			Group 183			Group 184			Group 185			Group 186			Group 187			Group 188			Group 189			Group 190			Group 191			Group 192			Group 193			Group 194			Group 195			Group 196			Group 197			Group 198			Group 199			Group 200			Group 201			Group 202			Group 203			Group 204			Group 205			Group 206			Group 207			Group 208			Group 209			Group 210			Group 211			Group 212			Group 213			Group 214			Group 215			Group 216			Group 217			Group 218			Group 219			Group 220			Group 221			Group 222			Group 223			Group 224			Group 225			Group 226			Group 227			Group 228			Group 229			Group 230			Group 231			Group 232			Group 233			Group 234			Group 235			Group 236			Group 237			Group 238			Group 239			Group 240			Group 241			Group 242			Group 243			Group 244			Group 245			Group 246			Group 247			Group 248			Group 249			Group 250			Group 251			Group 252			Group 253			Group 254			Group 255			Group 256			Group 257			Group 258			Group 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# Appendix D

Pasture trend study summaries of vegetation cover and composition data for 1967 and 1968 from transects of permanent plots.

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POISON BUTTES ALLOTMENT

C1-1

Artr-Agsm Type  
NE exp., 2° slope

3 Aug. 1967

C2-1

Artr-Agsm Type  
W exp., 3° slope

5 Aug. 1967

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	14.09			80	Artr	15.42			90
Shrub Total	14.09				Shrub Total	15.42			
Agsm	.08	2.44	7.34	40	Agsm	.60	12.71	32.97	90
Cael	.29	8.86	26.61	70	Kocr	.10	2.12	5.49	5
Pose	.24	7.34	22.02	70	Pose	.17	3.60	9.34	30
Sihy	.06	1.83	5.50	15	Sihy	.13	2.75	7.14	25
Stco	.41	12.53	37.61	35	Stco	.82	17.37	45.06	55
Feoc	.01	.31	.92	5					
Grass Total	1.09	33.31	100.00		Grass Total	1.82	38.55	100.00	
Alac	.01	.31	.46	10	Alac	.01	.21	.34	10
Aspu	.03	.92	1.38	10	Crepis spp.	.01	.21	.34	10
Eren	.08	2.45	3.67	55	Eren	.04	.85	1.38	35
Oppo	1.55	47.40	71.10	20	Oppo	2.40	50.86	82.77	30
Phho	.44	13.46	20.17	45	Phho	.33	6.99	11.39	60
Spco	.01	.31	.46	10	Spco	.01	.21	.34	10
Trgy	.03	.92	1.38	25	Trgy	.01	.21	.34	10
Alde	.02	.61	.92	15	Alde	.09	1.91	3.10	90
Lare	.01	.31	.46	5					
Forb Total	2.18	66.69	100.00		Forb Total	2.90	61.45	100.00	
Grass and Forb Total	3.27	100.00			Grass and Forb Total	4.72	100.00		





## POISON BUTTES ALLOTMENT

C1-1

Artr-Agsm Type  
NE exp., 2° slope

5 July 1968

C2-1

Artr-Agsm Type  
W exp., 3° slope

5 July 1968

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	12.87			75	Artr	13.00			80
Shrub Total	12.87				Shrub Total	13.00			
Agsm	.36	18.37	23.53	50	Agsm	.89	36.64	48.10	95
Cael	.60	30.62	39.21	75	Pose	.23	9.47	12.43	45
Pose	.24	12.24	15.69	75	Kocr	.10	4.12	5.41	5
Sihy	.02	1.02	1.31	15	Sihy	.13	5.35	7.03	25
Stco	.31	15.82	20.26	35	Stco	.49	20.16	26.49	60
					Brte	.01	.41	.54	5
Grass Total	1.53	78.07	100.00		Grass Total	1.85	76.15	100.00	
Andi	.01	.51	2.33	5	Andi	.01	.41	1.72	5
Aspu	.01	.51	2.33	5	Canu	.01	.41	1.72	5
Eren	.03	1.53	6.98	25	Crepis spp.	.01	.41	1.72	5
Lofo	.02	1.02	4.65	15	Eren	.01	.41	1.72	10
Oppo	.23	11.73	53.47	25	Oppo	.33	13.58	56.92	20
Phho	.07	3.57	16.28	45	Phho	.05	2.06	8.62	45
Phlo	.01	.51	2.33	5	Phlo	.02	.82	3.45	20
Spco	.01	.51	2.33	5	Spco	.01	.41	1.72	10
Trgy	.02	1.02	4.65	15	Trgy	.02	.82	3.45	20
Alde	.02	1.02	4.65	15	Alde	.08	3.29	13.79	75
Forb Total	.43	21.93	100.00		Lare	.01	.41	1.72	5
Grass and Forb Total	1.96	100.00			Unk.	.02	.82	3.45	15
					Forb Total	.58	23.85	100.00	
					Grass and Forb Total	2.43	100.00		





POISON BUTTES ALLOTMENT

C3-1

Artr-Agsm-Oppo Type  
SW exp., 3° slope

3 Aug. 1967

C4-1

Artr-Agsm-Oppo Type  
W exp., 3.5° slope

3 Aug. 1967

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	15.31			75	Artr	14.06			70
Shrub Total	15.31				Shrub Total	14.06			
Agsm	.54	13.95	45.76	75	Agsm	.89	14.33	64.49	100
Cael	.04	1.03	3.39	20	Kocr	.04	.64	2.90	15
Kocr	.21	5.43	17.80	25	Pofe	.25	4.03	18.12	5
Pofe	.05	1.29	4.24	5	Pose	.15	2.42	10.87	65
Pose	.12	3.10	10.17	55	Stco	.05	.81	3.62	5
Sihy	.03	.78	2.54	10	Grass Total	1.38	22.23	100.00	
Stco	.18	4.65	15.25	20	Andi	.03	.48	.62	5
Brte	.01	.26	.85	5	Crepis spp.	.02	.32	.41	20
Grass Total	1.18	30.49	100.00		Eren	.03	.48	.62	30
Crepis spp.	.01	.26	.37	5	Erov	.01	.16	.21	5
Eren	.01	.26	.37	5	Oppo	4.53	72.96	93.79	55
Oppo	2.33	60.20	86.62	40	Phho	.04	.64	.83	20
Phho	.21	5.43	7.81	45	Spco	.01	.16	.21	5
Phlo	.02	.52	.74	20	Trgy	.02	.32	.41	15
Spco	.01	.26	.37	5	Alde	.11	1.77	2.28	90
Alde	.10	2.58	3.72	95	Cora	.01	.16	.21	5
Forb Total	2.69	69.51	100.00		Lare	.02	.32	.41	20
Grass and Forb Total	3.87	100.00			Forb Total	4.83	77.77	100.00	
					Grass and Forb Total	6.21	100.00		



POISON BUTTES ALLOTMENT

C3-1

C4-1

Artr-Agsm-Oppo Type  
SW exp., 3° slope

Artr-Agsm-Oppo Type  
W exp., 3.5° slope

5 July 1968

5 July 1968

	Cover %	Comp. % all G & F	Comp. % by Group	% Freq.		Cover %	Comp. % all G & F	Comp. % by Group	% Freq.
	Avg.					Avg.			
Artr	14.23			85	Artr	12.55			65
Eula	.01			5					
Shrub Total	14.24				Shrub Total	12.55			
Agsm	.75	36.97	51.03	80	Agsm	1.36	41.35	69.74	100
Cael	.12	5.91	8.16	30	Cael	.01	.30	.51	5
Kocr	.21	10.34	14.29	20	Kocr	.10	3.04	5.13	5
Pofe	.05	2.46	3.40	5	Pofe	.25	7.60	12.82	5
Pose	.17	8.37	11.56	70	Pose	.16	4.86	8.21	75
Sihy	.04	1.97	2.72	15	Sihy	.02	.61	1.03	15
Stco	.13	6.40	8.84	15	Stco	.05	1.52	2.56	5
Grass Total	1.47	72.42	100.00		Grass Total	1.95	59.28	100.00	
Crepis spp.	.01	.49	1.79	10	Alte	.01	.30	.75	10
Eren	.02	.99	3.57	20	Andi	.05	1.52	3.73	5
Lofo	.01	.49	1.79	10	Crepis spp.	.03	.91	2.24	25
Oppo	.43	21.18	76.77	30	Eren	.03	.91	2.24	25
Phho	.05	2.46	8.93	50	Erov	.03	.91	2.24	5
Spco	.01	.49	1.79	5	Oppo	.98	29.79	73.12	45
Alde	.02	.99	3.57	20	Phho	.02	.61	1.49	20
Plpa	.01	.49	1.79	5	Phlo	.02	.61	1.49	15
Forb Total	.56	27.58	100.00		Spco	.01	.30	.75	5
Grass and Forb Total	2.03	100.00			Trgy	.03	.91	2.24	25
					Alde	.09	2.74	6.72	85
					Cora	.01	.30	.75	5
					Lare	.01	.30	.75	10
					Unk.	.02	.61	1.49	20
					Forb Total	1.34	40.72	100.00	
					Grass and Forb Total	3.29	100.00		





POISON BUTTES ALLOTMENT

C5-1

Artr-Agsm Type  
E exp., 0.5° slope

4 Aug. 1967

C6-1

Artr-Agsm Type  
E exp., 0.5° slope

4 Aug. 1967

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Arsp	1.25			15	Artr	16.41			70
Artr	9.35			35	Eula	.18			20
Atga	3.43			25					
Chvi	.15			5	Shrub Total	16.59			
Shrub Total	14.18				Agsm	.96	54.27	73.85	80
					Pofe	.11	6.21	8.46	15
Agsm	.49	22.47	42.60	70	Pose	.15	8.48	11.54	70
Orhy	.30	13.76	26.09	5	Sihy	.08	4.52	6.15	10
Pose	.32	14.68	27.83	70	Grass Total	1.30	73.48	100.00	
Sihy	.03	1.38	2.61	10					
Brte	.01	.46	.87	10	Alac	.02	1.13	4.26	20
Grass Total	1.15	52.75	100.00		Crepis spp.	.02	1.13	4.26	15
Alte	.01	.46	.97	10	Eren	.05	2.82	10.64	45
Andi	.05	2.29	4.85	5	Lofo	.01	.56	2.13	5
Crepis spp.	.01	.46	.97	10	Oppo	.05	2.82	10.63	5
Eren	.03	1.38	2.91	30	Phho	.27	15.25	57.43	40
Lofo	.02	.92	1.94	15	Trgy	.02	1.13	4.26	15
Oppo	.50	22.93	48.56	10	Alde	.01	.56	2.13	10
Phho	.25	11.47	24.27	15	Lare	.01	.56	2.13	5
Trgy	.03	1.38	2.91	25	Posa	.01	.56	2.13	5
Alde	.05	2.29	4.85	45	Forb Total	.47	26.52	100.00	
Depi	.01	.46	.97	5					
Lare	.06	2.75	5.83	60	Grass and				
Poav	.01	.46	.97	5	Forb Total	1.77	100.00		
Forb Total	1.03	47.25	100.00						
Grass and									
Forb Total	2.18	100.00							





POISON BUTTES ALLOTMENT

C5-1

Artr-Agsm Type  
E exp., 0.5° slope

25 June 1968

C6-1

Artr-Agsm Type  
E exp., 0.5° slope

23 June 1968

	Cover %	Comp. % all G & F	Comp. % by Group	% Freq.		Cover %	Comp. % all G & F	Comp. % by Group	% Freq.
	Avg.					Avg.			
Arsp	1.25			15	Artr	17.05			60
Artr	7.60			35	Eula	.05			10
Atga	3.15			20					
Shrub Total	12.00				Shrub Total	17.10			
Agsm	.83	39.90	65.88	65	Agsm	.87	61.68	79.09	85
Orhy	.15	7.21	11.90	5	Pofe	.08	5.67	7.27	15
Pose	.22	10.58	17.46	65	Pose	.12	8.51	10.91	55
Sihy	.04	1.93	3.17	20	Sihy	.03	2.13	2.73	10
Brte	.02	.96	1.59	15	Grass Total	1.10	77.99	100.00	
Grass Total	1.26	60.58	100.00		Alac	.02	1.42	6.45	15
Alte	.03	1.44	3.66	30	Andi	.01	.71	3.23	10
Andi	.30	14.42	36.58	5	Arabis spp.	.01	.71	3.23	5
Crepis spp.	.01	.48	1.22	5	Crepis spp.	.02	1.42	6.45	20
Eren	.03	1.44	3.66	25	Eren	.03	2.13	9.68	25
Lofo	.04	1.93	4.88	35	Phho	.04	2.84	12.90	35
Oppo	.15	7.21	18.29	5	Phlo	.02	1.42	6.45	20
Phho	.08	3.85	9.76	15	Trgy	.06	4.26	19.35	35
Phlo	.02	.96	2.44	20	Alde	.03	2.13	9.68	25
Trgy	.04	1.93	4.88	40	Gisi	.04	2.84	12.90	40
Alde	.06	2.88	7.32	55	Oean	.01	.71	3.23	10
Lare	.05	2.40	6.09	30	Unk.	.02	1.42	6.45	20
Unk.	.01	.48	1.22	5	Forb Total	.31	22.01	100.00	
Forb Total	.82	39.42	100.00		Grass and Forb Total	1.41	100.00		
Grass and Forb Total	2.08	100.00							



POISON BUTTES ALLOTMENT

C7-1

Artr-Agsm Type Sprayed

N exp., 2° slope

4 Aug. 1967

C8-1

Artr-Agsm Type - Sprayed

NE exp., 0.5° slope

4 Aug. 1967

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Shrub Total	0.00				Artr	2.03			15
Agsm	2.28	41.54	49.77	100	Shrub Total	2.03			
Kocr	.70	12.75	15.28	50	Agsm	2.18	57.69	63.00	90
Pofe	.76	13.84	16.60	50	Kocr	.10	2.65	2.89	5
Pose	.57	10.38	12.45	95	Pofe	.21	5.56	6.07	20
Sihiy	.26	4.74	5.68	30	Pose	.62	16.40	17.92	95
Brte	.01	.18	.22	5	Sihiy	.19	5.03	5.49	30
Grass Total	4.58	83.43	100.00		Stco	.15	3.97	4.34	5
Alac	.01	.18	1.10	5	Brte	.01	.26	.29	5
Crepis spp.	.01	.18	1.10	5	Grass Total	3.46	91.56	100.00	
Eren	.01	.18	1.10	10	Alac	.02	.53	6.25	15
Oppo	.75	13.66	82.41	5	Andi	.03	.79	9.37	5
Phho	.04	.73	4.40	15	Aspu	.01	.26	3.13	5
Trgy	.05	.91	5.49	5	Eren	.01	.26	3.13	10
Gisi	.01	.18	1.10	10	Oppo	.03	.79	9.37	5
Posa	.03	.55	3.30	10	Alde	.06	1.59	18.75	55
Forb Total	.91	16.57	100.00		Chat	.01	.26	3.13	5
Grass and					Depi	.01	.26	3.13	10
Forb Total	5.49	100.00			Gisi	.01	.26	3.13	10
					Posa	.13	3.44	40.61	85
					Forb Total	.32	8.44	100.00	
					Grass and				
					Forb Total	3.78	100.00		





POISON BUTTES ALLOTMENT

C7-1

Artr-Agsm Type - Sprayed  
N exp., 2° slope

24 June 1968

C8-1

Artr-Agsm Type - Sprayed  
NE exp., 0.5° slope

24 June 1968

	Cover %	Comp. % all G & F	Comp. % by Group	% Freq.		Cover %	Comp. % all G & F	Comp. % by Group	% Freq.
	Avg.					Avg.			
Shrub Total	0.00				Artr	3.13			15
Agsm	3.33	58.62	61.54	20	Shrub Total	3.13			
Kocr	.80	14.08	14.79	55	Agsm	2.78	62.38	70.56	90
Pofe	.53	9.33	9.80	55	Kocr	.13	2.91	3.30	15
Pose	.63	11.09	11.65	95	Pofe	.32	7.17	8.12	45
Sihy	.12	2.11	2.22	30	Pose	.40	8.97	10.15	100
Grass Total	5.41	95.23	100.00		Sihy	.18	4.04	4.57	45
Crepis spp.	.01	.18	3.70	5	Stco	.13	2.91	3.30	10
Eren	.02	.35	7.41	15	Grass Total	3.94	88.38	100.00	
Lofo	.01	.18	3.70	5	Alac	.01	.22	1.92	10
Oppo	.10	1.76	37.05	5	Andi	.03	.67	5.77	10
Phho	.01	.18	3.70	10	Asdr	.01	.22	1.92	5
Phlo	.02	.35	7.41	20	Eren	.01	.22	1.92	5
Trgy	.01	.18	3.70	5	Lofo	.01	.22	1.92	10
Copa	.05	.88	18.52	50	Oppo	.01	.22	1.92	5
Gisi	.01	.18	3.70	10	Phlo	.01	.22	1.92	10
Oeco	.01	.18	3.70	5	Trgy	.02	.45	3.85	15
Posa	.02	.35	7.41	20	Alde	.08	1.79	15.39	80
Forb Total	.27	4.77	100.00		Cora	.01	.22	1.92	5
Grass and Forb Total	5.68	100.00			Depi	.01	.22	1.92	5
					Gisi	.06	1.35	11.54	55
					Gypa	.08	1.79	15.39	80
					Lare	.01	.22	1.92	5
					Oean	.06	1.35	11.54	60
					Posa	.10	2.24	19.24	20
					Forb Total	.52	11.62	100.00	
					Grass and Forb Total	4.46	100.00		

POISON BOTTLED ALLOCATED

C-1		C-2		C-3		C-4		C-5		C-6		C-7		C-8		C-9		C-10		C-11		C-12		C-13		C-14		C-15		C-16		C-17		C-18		C-19		C-20		C-21		C-22		C-23		C-24		C-25		C-26		C-27		C-28		C-29		C-30		C-31		C-32		C-33		C-34		C-35		C-36		C-37		C-38		C-39		C-40		C-41		C-42		C-43		C-44		C-45		C-46		C-47		C-48		C-49		C-50		C-51		C-52		C-53		C-54		C-55		C-56		C-57		C-58		C-59		C-60		C-61		C-62		C-63		C-64		C-65		C-66		C-67		C-68		C-69		C-70		C-71		C-72		C-73		C-74		C-75		C-76		C-77		C-78		C-79		C-80		C-81		C-82		C-83		C-84		C-85		C-86		C-87		C-88		C-89		C-90		C-91		C-92		C-93		C-94		C-95		C-96		C-97		C-98		C-99		C-100		C-101		C-102		C-103		C-104		C-105		C-106		C-107		C-108		C-109		C-110		C-111		C-112		C-113		C-114		C-115		C-116		C-117		C-118		C-119		C-120		C-121		C-122		C-123		C-124		C-125		C-126		C-127		C-128		C-129		C-130		C-131		C-132		C-133		C-134		C-135		C-136		C-137		C-138		C-139		C-140		C-141		C-142		C-143		C-144		C-145		C-146		C-147		C-148		C-149		C-150		C-151		C-152		C-153		C-154		C-155		C-156		C-157		C-158		C-159		C-160		C-161		C-162		C-163		C-164		C-165		C-166		C-167		C-168		C-169		C-170		C-171		C-172		C-173		C-174		C-175		C-176		C-177		C-178		C-179		C-180		C-181		C-182		C-183		C-184		C-185		C-186		C-187		C-188		C-189		C-190		C-191		C-192		C-193		C-194		C-195		C-196		C-197		C-198		C-199		C-200		C-201		C-202		C-203		C-204		C-205		C-206		C-207		C-208		C-209		C-210		C-211		C-212		C-213		C-214		C-215		C-216		C-217		C-218		C-219		C-220		C-221		C-222		C-223		C-224		C-225		C-226		C-227		C-228		C-229		C-230		C-231		C-232		C-233		C-234		C-235		C-236		C-237		C-238		C-239		C-240		C-241		C-242		C-243		C-244		C-245		C-246		C-247		C-248		C-249		C-250		C-251		C-252		C-253		C-254		C-255		C-256		C-257		C-258		C-259		C-260		C-261		C-262		C-263		C-264		C-265		C-266		C-267		C-268		C-269		C-270		C-271		C-272		C-273		C-274		C-275		C-276		C-277		C-278		C-279		C-280		C-281		C-282		C-283		C-284		C-285		C-286		C-287		C-288		C-289		C-290		C-291		C-292		C-293		C-294		C-295		C-296		C-297		C-298		C-299		C-300		C-301		C-302		C-303		C-304		C-305		C-306		C-307		C-308		C-309		C-310		C-311		C-312		C-313		C-314		C-315		C-316		C-317		C-318		C-319		C-320		C-321		C-322		C-323		C-324		C-325		C-326		C-327		C-328		C-329		C-330		C-331		C-332		C-333		C-334		C-335		C-336		C-337		C-338		C-339		C-340		C-341		C-342		C-343		C-344		C-345		C-346		C-347		C-348		C-349		C-350		C-351		C-352		C-353		C-354		C-355		C-356		C-357		C-358		C-359		C-360		C-361		C-362		C-363		C-364		C-365		C-366		C-367		C-368		C-369		C-370		C-371		C-372		C-373		C-374		C-375		C-376		C-377		C-378		C-379		C-380		C-381		C-382		C-383		C-384		C-385		C-386		C-387		C-388		C-389		C-390		C-391		C-392		C-393		C-394		C-395		C-396		C-397		C-398		C-399		C-400		C-401		C-402		C-403		C-404		C-405		C-406		C-407		C-408		C-409		C-410		C-411		C-412		C-413		C-414		C-415		C-416		C-417		C-418		C-419		C-420		C-421		C-422		C-423		C-424		C-425		C-426		C-427		C-428		C-429		C-430		C-431		C-432		C-433		C-434		C-435		C-436		C-437		C-438		C-439		C-440		C-441		C-442		C-443		C-444		C-445		C-446		C-447		C-448		C-449		C-450		C-451		C-452		C-453		C-454		C-455		C-456		C-457		C-458		C-459		C-460		C-461		C-462		C-463		C-464		C-465		C-466		C-467		C-468		C-469		C-470		C-471		C-472		C-473		C-474		C-475		C-476		C-477		C-478		C-479		C-480		C-481		C-482		C-483		C-484		C-485		C-486		C-487		C-488		C-489		C-490		C-491		C-492		C-493		C-494		C-495		C-496		C-497		C-498		C-499		C-500		C-501		C-502		C-503		C-504		C-505		C-506		C-507		C-508		C-509		C-510		C-511		C-512		C-513		C-514		C-515		C-516		C-517		C-518		C-519		C-520		C-521		C-522		C-523		C-524		C-525		C-526		C-527		C-528		C-529		C-530		C-531		C-532		C-533		C-534		C-535		C-536		C-537		C-538		C-539		C-540		C-541		C-542		C-543		C-544		C-545		C-546		C-547		C-548		C-549		C-550		C-551		C-552		C-553		C-554		C-555		C-556		C-557		C-558		C-559		C-560		C-561		C-562		C-563		C-564		C-565		C-566		C-567		C-568		C-569		C-570		C-571		C-572		C-573		C-574		C-575		C-576		C-577		C-578		C-579		C-580		C-581		C-582		C-583		C-584		C-585		C-586		C-587		C-588		C-589		C-590		C-591		C-592		C-593		C-594		C-595		C-596		C-597		C-598		C-599		C-600		C-601		C-602		C-603		C-604		C-605		C-606		C-607		C-608		C-609		C-610		C-611		C-612		C-613		C-614		C-615		C-616		C-617		C-618		C-619		C-620		C-621		C-622		C-623		C-624		C-625		C-626		C-627		C-628		C-629		C-630		C-631		C-632		C-633		C-634		C-635		C-636		C-637		C-638		C-639		C-640		C-641		C-642		C-643		C-644		C-645		C-646		C-647		C-648		C-649		C-650		C-651		C-652		C-653		C-654		C-655		C-656		C-657		C-658		C-659		C-660		C-661		C-662		C-663		C-664		C-665		C-666		C-667		C-668		C-669		C-670		C-671		C-672		C-673		C-674		C-675		C-676		C-677		C-678		C-679		C-680		C-681		C-682		C-683		C-684		C-685		C-686		C-687		C-688		C-689		C-690		C-691		C-692		C-693		C-694		C-695		C-696		C-697		C-698		C-699		C-700		C-701		C-702		C-703		C-704		C-705		C-706		C-707		C-708		C-709		C-710		C-711		C-712		C-713		C-714		C-715		C-716		C-717		C-718		C-719		C-720		C-721		C-722		C-723		C-724		C-725		C-726		C-727		C-728		C-729		C-730		C-731		C-732		C-733		C-734		C-735		C-736		C-737		C-738		C-739		C-740		C-741		C-742		C-743		C-744		C-745		C-746		C-747		C-748		C-749		C-750		C-751		C-752		C-753		C-754		C-755		C-756		C-757		C-758		C-759		C-760		C-761		C-762		C-763		C-764		C-765		C-766		C-767		C-768		C-769		C-770		C-771		C-772		C-773		C-774		C-775		C-776		C-777		C-778		C-779		C-780		C-781		C-782		C-783		C-784		C-785		C-786		C-787		C-788		C-789		C-790		C-791		C-792		C-793		C-794		C-795		C-796		C-797		C-798		C-799		C-800		C-801		C-802		C-803		C-804		C-805		C-806		C-807		C-808		C-809		C-810		C-811		C-812		C-813		C-814		C-815		C-816		C-817		C-818		C-819		C-820		C-821		C-822		C-823		C-824		C-825		C-826		C-827		C-828		C-829		C-830		C-831		C-832		C-833		C-834		C-835		C-836		C-837		C-838		C-839		C-840		C-841		C-842		C-843		C-844		C-845		C-846		C-847		C-848		C-849		C-850		C-851		C-852		C-853		C-854		C-855		C-856		C-857		C-858		C-859		C-860		C-861		C-862		C-863		C-864		C-865		C-866		C-867		C-868		C-869		C-870		C-871		C-872		C-873		C-874		C-875		C-876		C-877		C-878		C-879		C-880		C-881		C-882		C-883		C-884		C-885		C-886		C-887		C-888		C-889		C-890		C-891		C-892		C-893		C-894		C-895		C-896		C-897		C-898		C-899		C-900		C-901		C-902		C-903		C-904		C-905		C-906		C-907		C-908		C-909		C-910		C-911		C-912		C-913		C-914		C-915		C-916		C-917		C-918		C-919		C-920		C-921		C-922		C-923		C-924		C-925		C-926		C-927		C-928		C-929		C-930		C-931		C-932		C-933		C-934		C-935		C-936		C-937		C-938		C-939		C-940		C-941		C-942		C-943		C-944		C-945		C-946		C-947		C-948		C-949		C-950		C-951		C-952		C-953		C-954		C-955		C-956		C-957		C-958		C-959		C-960		C-9	
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POISON BUTTES ALLOTMENT

C9-1

Artr-Agsm Type  
N exp., 1° slope

5 Aug. 1967

C10-1

Artr-Agsm Type  
SE exp., 3° slope

5 Aug. 1967

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	3.25			65	Artr	13.65			65
Shrub Total	3.25				Shrub Total	13.65			
Agsm	1.34	26.59	37.22	90	Agsm	.26	17.33	38.81	30
Kocr	.30	5.95	8.33	20	Pose	.31	20.67	46.27	45
Orhy	.10	1.98	2.78	5	Sihy	.09	6.00	13.43	20
Pofe	.33	6.55	9.17	20	Brte	.01	.67	1.49	10
Pose	1.09	21.63	30.28	80	Grass Total	0.67	44.67	100.00	
Sihy	.16	3.17	4.44	25	Alac	.04	2.67	4.82	15
Stco	.28	5.56	7.78	15	Eren	.07	4.67	8.43	70
Grass Total	3.60	71.43	100.00		Lofo	.01	.67	1.20	5
Alac	.04	.79	2.78	35	Oppo	.53	35.31	63.88	15
Andi	.08	1.59	5.56	10	Phho	.02	1.33	2.41	15
Crepis spp.	.01	.20	.69	5	Spco	.01	.67	1.20	5
Eren	.05	.99	3.47	50	Trgy	.02	1.33	2.41	15
Oppo	1.03	20.44	71.53	10	Alde	.10	6.67	12.05	100
Phho	.04	.79	2.78	35	Cora	.01	.67	1.20	5
Trgy	.03	.60	2.08	25	Depi	.01	.67	1.20	5
Alde	.01	.20	.69	10	Lare	.01	.67	1.20	5
Copa	.04	.79	2.78	35	Forb Total	.83	55.33	100.00	
Cora	.03	.60	2.08	30	Grass and Forb Total	1.50	100.00		
Oean	.04	.79	2.78	35					
Posa	.04	.79	2.78	35					
Forb Total	1.44	28.57	100.00						
Grass and Forb Total	5.04	100.00							

## POISON BUTTER ALLOTMENT

CS-1		C10-1	
After-Again Type		After-Again Type	
N exp., 1p slope		SE exp., 3p slope	
2 Aug. 1967		2 Aug. 1967	
Cover	Comp.	Cover	Comp.
X	% by	X	% by
Avg.	G & E Group	Avg.	G & E Group
3.52		3.52	
Shrub Total		Shrub Total	
3.52		3.52	
Agave	1.34	Agave	1.34
Amor	1.30	Amor	1.30
Opdy	1.10	Opdy	1.10
Palm	1.33	Palm	1.33
Palm	1.09	Palm	1.09
Shrub	1.16	Shrub	1.16
Shrub	1.28	Shrub	1.28
Gross Total		Gross Total	
3.60	71.43 100.00	3.60	71.43 100.00
Aliso	1.04	Aliso	1.04
Andi	1.08	Andi	1.08
Crepis spp.	1.01	Crepis spp.	1.01
Erva	1.05	Erva	1.05
Opno	1.03	Opno	1.03
Phlo	1.04	Phlo	1.04
Trif	1.03	Trif	1.03
Aliso	1.01	Aliso	1.01
Gops	1.04	Gops	1.04
Cora	1.03	Cora	1.03
Gean	1.04	Gean	1.04
Posa	1.04	Posa	1.04
Forb Total		Forb Total	
1.64	28.57 100.00	1.64	28.57 100.00
Gross and		Gross and	
2.04 100.00		2.04 100.00	
Forb Total		Forb Total	
28.27 100.00		28.27 100.00	
Gross and		Gross and	
1.50 100.00		1.50 100.00	
Forb Total		Forb Total	
22.22 100.00		22.22 100.00	
Gross and		Gross and	
1.50 100.00		1.50 100.00	
Forb Total		Forb Total	
22.22 100.00		22.22 100.00	
Gross and		Gross and	
1.50 100.00		1.50 100.00	
Forb Total		Forb Total	
22.22 100.00		22.22 100.00	
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Forb Total		Forb Total	
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Forb Total		Forb Total	
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Gross and		Gross and</	

POISON BUTTES ALLOTMENT

C9-1

C10-1

Artr-Agsm Type  
N exp., 1° slope

Artr-Agsm Type  
SE exp., 3° slope

24 June 1968

5 July 1968

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	4.04			80	Artr	10.80			65
Shrub Total	4.04				Shrub Total	10.80			
Agsm	1.86	45.92	54.55	95	Agsm	.38	30.90	44.71	35
Kocr	.23	5.68	6.74	20	Pose	.38	30.90	44.71	40
Orhy	.05	1.23	1.47	5	Sihy	.07	5.69	8.23	25
Pofe	.38	9.38	11.14	25	Brte	.02	1.63	2.35	20
Pose	.55	13.58	16.13	95	Grass Total	.85	69.12	100.00	
Sihy	.14	3.46	4.11	30	Andi	.01	.81	2.63	5
Stco	.19	4.69	5.57	25	Crepis spp.	.01	.81	2.63	5
Brte	.01	.25	.29	5	Eren	.03	2.44	7.89	25
Grass Total	3.41	84.19	100.00		Lofo	.01	.81	2.63	5
Andi	.11	2.72	17.19	20	Maca	.01	.81	2.63	5
Aggl	.01	.25	1.56	5	Oppo	.13	10.57	34.24	10
Asci	.01	.25	1.56	5	Phho	.01	.81	2.63	10
Cacr	.01	.25	1.56	10	Phlo	.02	1.63	5.26	15
Eren	.06	1.48	9.38	60	Spco	.01	.81	2.63	5
Lofo	.01	.25	1.56	5	Trgy	.02	1.63	5.26	20
Oppo	.11	2.72	17.19	10	Alde	.09	7.32	23.68	90
Phho	.02	.49	3.13	15	Chat	.01	.81	2.63	5
Trgy	.06	1.48	9.38	55	Gisi	.01	.81	2.63	5
Alde	.01	.25	1.56	10	Lare	.01	.81	2.63	10
Copa	.07	1.73	10.92	65	Forb Total	.38	30.88	100.00	
Cora	.03	.74	4.69	25	Grass and Forb Total	1.23	100.00		
Gisi	.05	1.23	7.81	45					
Lare	.02	.49	3.13	15					
Posa	.06	1.48	9.38	60					
Forb Total	.64	15.81	100.00						
Grass and Forb Total	4.05	100.00							





OPPENHIEMER ALLOTMENT - EAST PASTURE

C1-1

Artr-Agsm-Oppo Type  
SW exp., 3° slope

3 Aug. 1967

C2-1

Artr-Agsm Type  
SW exp., 3° slope

5 Aug. 1967

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	11.28			35	Artr	8.19			65
Shrub Total	11.28				Shrub Total	8.19			
Agsm	.50	10.14	50.00	75	Agsm	.23	11.50	46.94	70
Cael	.03	.61	3.00	10	Pose	.23	11.50	46.94	75
Kocr	.01	.20	1.00	5	Stco	.01	.50	2.04	5
Pose	.20	4.06	20.00	55	Brte	.01	.50	2.04	5
Sihy	.08	1.62	8.00	15	Unk.	.01	.50	2.04	5
Stco	.18	3.65	18.00	35					
Grass Total	1.00	20.28	100.00		Grass Total	.49	24.50	100.00	
Alac	.04	.81	1.02	40	Eren	.11	5.50	7.28	70
Eren	.01	.20	.25	10	Erov	.01	.50	.66	5
Oppo	3.75	76.07	95.43	70	Haac	.10	5.00	6.62	5
Phho	.01	.20	.25	10	Lofo	.01	.50	.66	5
Phlo	.03	.61	.76	30	Oppo	1.00	50.00	66.24	15
Alde	.09	1.83	2.29	90	Phho	.22	11.00	14.57	45
Forb Total	3.93	79.72	100.00		Spco	.03	1.50	1.99	25
Grass and Forb Total	4.93	100.00			Trgy	.01	.50	.66	10
					Alde	.01	.50	.66	10
					Posa	.01	.50	.66	5
					Forb Total	1.51	75.50	100.00	
					Grass and Forb Total	2.00	100.00		

WATERBURY ALLIANCE - 1997

1997		1998		1999		2000		2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011		2012		2013		2014		2015		2016		2017		2018		2019		2020		2021		2022		2023		2024		2025		2026		2027		2028		2029		2030		2031		2032		2033		2034		2035		2036		2037		2038		2039		2040		2041		2042		2043		2044		2045		2046		2047		2048		2049		2050		2051		2052		2053		2054		2055		2056		2057		2058		2059		2060		2061		2062		2063		2064		2065		2066		2067		2068		2069		2070		2071		2072		2073		2074		2075		2076		2077		2078		2079		2080		2081		2082		2083		2084		2085		2086		2087		2088		2089		2090		2091		2092		2093		2094		2095		2096		2097		2098		2099		2100		2101		2102		2103		2104		2105		2106		2107		2108		2109		2110		2111		2112		2113		2114		2115		2116		2117		2118		2119		2120		2121		2122		2123		2124		2125		2126		2127		2128		2129		2130		2131		2132		2133		2134		2135		2136		2137		2138		2139		2140		2141		2142		2143		2144		2145		2146		2147		2148		2149		2150		2151		2152		2153		2154		2155		2156		2157		2158		2159		2160		2161		2162		2163		2164		2165		2166		2167		2168		2169		2170		2171		2172		2173		2174		2175		2176		2177		2178		2179		2180		2181		2182		2183		2184		2185		2186		2187		2188		2189		2190		2191		2192		2193		2194		2195		2196		2197		2198		2199		2200		2201		2202		2203		2204		2205		2206		2207		2208		2209		2210		2211		2212		2213		2214		2215		2216		2217		2218		2219		2220		2221		2222		2223		2224		2225		2226		2227		2228		2229		2230		2231		2232		2233		2234		2235		2236		2237		2238		2239		2240		2241		2242		2243		2244		2245		2246		2247		2248		2249		2250		2251		2252		2253		2254		2255		2256		2257		2258		2259		2260		2261		2262		2263		2264		2265		2266		2267		2268		2269		2270		2271		2272		2273		2274		2275		2276		2277		2278		2279		2280		2281		2282		2283		2284		2285		2286		2287		2288		2289		2290		2291		2292		2293		2294		2295		2296		2297		2298		2299		2300		2301		2302		2303		2304		2305		2306		2307		2308		2309		2310		2311		2312		2313		2314		2315		2316		2317		2318		2319		2320		2321		2322		2323		2324		2325		2326		2327		2328		2329		2330		2331		2332		2333		2334		2335		2336		2337		2338		2339		2340		2341		2342		2343		2344		2345		2346		2347		2348		2349		2350		2351		2352		2353		2354		2355		2356		2357		2358		2359		2360		2361		2362		2363		2364		2365		2366		2367		2368		2369		2370		2371		2372		2373		2374		2375		2376		2377		2378		2379		2380		2381		2382		2383		2384		2385		2386		2387		2388		2389		2390		2391		2392		2393		2394		2395		2396		2397		2398		2399		2400		2401		2402		2403		2404		2405		2406		2407		2408		2409		2410		2411		2412		2413		2414		2415		2416		2417		2418		2419		2420		2421		2422		2423		2424		2425		2426		2427		2428		2429		2430		2431		2432		2433		2434		2435		2436		2437		2438		2439		2440		2441		2442		2443		2444		2445		2446		2447		2448		2449		2450		2451		2452		2453		2454		2455		2456		2457		2458		2459		2460		2461		2462		2463		2464		2465		2466		2467		2468		2469		2470		2471		2472		2473		2474		2475		2476		2477		2478		2479		2480		2481		2482		2483		2484		2485		2486		2487		2488		2489		2490		2491		2492		2493		2494		2495		2496		2497		2498		2499		2500		2501		2502		2503		2504		2505		2506		2507		2508		2509		2510		2511		2512		2513		2514		2515		2516		2517		2518		2519		2520		2521		2522		2523		2524		2525		2526		2527		2528		2529		2530		2531		2532		2533		2534		2535		2536		2537		2538		2539		2540		2541		2542		2543		2544		2545		2546		2547		2548		2549		2550		2551		2552		2553		2554		2555		2556		2557		2558		2559		2560		2561		2562		2563		2564		2565		2566		2567		2568		2569		2570		2571		2572		2573		2574		2575		2576		2577		2578		2579		2580		2581		2582		2583		2584		2585		2586		2587		2588		2589		2590		2591		2592		2593		2594		2595		2596		2597		2598		2599		2600		2601		2602		2603		2604		2605		2606		2607		2608		2609		2610		2611		2612		2613		2614		2615		2616		2617		2618		2619		2620		2621		2622		2623		2624		2625		2626		2627		2628		2629		2630		2631		2632		2633		2634		2635		2636		2637		2638		2639		2640		2641		2642		2643		2644		2645		2646		2647		2648		2649		2650		2651		2652		2653		2654		2655		2656		2657		2658		2659		2660		2661		2662		2663		2664		2665		2666		2667		2668		2669		2670		2671		2672		2673		2674		2675		2676		2677		2678		2679		2680		2681		2682		2683		2684		2685		2686		2687		2688		2689		2690		2691		2692		2693		2694		2695		2696		2697		2698		2699		2700		2701		2702		2703		2704		2705		2706		2707		2708		2709		2710		2711		2712		2713		2714		2715		2716		2717		2718		2719		2720		2721		2722		2723		2724		2725		2726		2727		2728		2729		2730		2731		2732		2733		2734		2735		2736		2737		2738		2739		2740		2741		2742		2743		2744		2745		2746		2747		2748		2749		2750		2751		2752		2753		2754		2755		2756		2757		2758		2759		2760		2761		2762		2763		2764		2765		2766		2767		2768		2769		2770		2771		2772		2773		2774		2775		2776		2777		2778		2779		2780		2781		2782		2783		2784		2785		2786		2787		2788		2789		2790		2791		2792		2793		2794		2795		2796		2797		2798		2799		2800		2801		2802		2803		2804		2805		2806		2807		2808		2809		2810		2811		2812		2813		2814		2815		2816		2817		2818		2819		2820		2821		2822		2823		2824		2825		2826		2827		2828		2829		28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OPPENHIEMER ALLOTMENT - EAST PASTURE

C1-1

Artr-Agsm-Oppo Type  
SW exp., 3° slope

5 July 1968

C2-1

Artr-Agsm Type  
SW exp., 3° slope

5 July 1968

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	3.00			10	Artr	8.39			70
Shrub Total	3.00				Shrub Total	8.39			
Agsm	.88	25.88	51.77	90	Agsm	.33	28.22	58.92	75
Cael	.10	2.94	5.88	10	Pose	.21	17.95	37.50	80
Pose	.22	6.47	12.94	65	Sihy	.01	.85	1.79	5
Sihy	.12	3.53	7.06	30	Brte	.01	.85	1.79	5
Stco	.38	11.18	22.35	30					
Grass Total	1.70	50.00	100.00		Grass Total	.56	47.87	100.00	
Alac	.02	.59	1.18	20	Alte	.01	.85	1.64	5
Eren	.01	.29	.59	5	Andi	.03	2.56	4.92	10
Oppo	1.63	47.96	95.87	70	Arabis spp.	.01	.85	1.64	5
SpcO	.01	.29	.59	5	Eren	.04	3.42	6.56	35
Trgy	.01	.29	.59	5	Erov	.01	.85	1.64	5
Chat	.01	.29	.59	5	Haac	.05	4.27	8.20	5
Lare	.01	.29	.59	10	Lofo	.01	.85	1.64	10
Grass Total	1.70	50.00	100.00		Oppo	.28	23.96	45.88	10
Grass and Forb Total	3.40	100.00			Phho	.07	5.98	11.48	45
					Phlo	.04	3.42	6.56	40
					SpcO	.02	1.71	3.28	15
					Trgy	.03	2.56	4.92	30
					Alde	.01	.85	1.64	5
					Forb Total	.61	52.13	100.00	
					Grass and Forb Total	1.17	100.00		



OPPENHIEMER ALLOTMENT - EAST PASTURE

C3-1

Artr-Agsm Type - Sprayed  
N exp., 3° slope

6 Aug. 1967

C4-1

Artr-Agsm Type  
SW exp., 0.5° slope

7 Aug. 1967

	Cover %	Comp. % all	Comp. % by	% Freq.		Cover %	Comp. % all	Comp. % by	% Freq.
	Avg.	G & F	Group			Avg.	G & F	Group	
Artr	.25			5	Artr	17.11			80
Shrub Total	.25				Shrub Total	17.11			
Agsm	.48	26.37	60.75	75	Agsm	.38	12.22	30.65	65
Kocr	.03	1.65	3.80	5	Pose	.64	20.58	51.61	75
Pofe	.01	.55	1.27	5	Sihi	.08	2.57	6.45	15
Pose	.20	10.99	25.32	50	Stco	.13	4.18	10.48	15
Sihi	.07	3.85	8.86	20	Brte	.01	.32	.81	5
Grass Total	.79	43.41	100.00		Grass Total	1.24	39.87	100.00	
Alac	.01	.55	.97	10	Aspu	.03	.96	1.60	10
Crepis spp.	.01	.55	.97	5	Eren	.04	1.28	2.13	30
Eren	.02	1.10	1.94	20	Erov	.08	2.57	4.28	10
Erov	.03	1.65	2.91	5	Maca	.01	.32	.53	5
Oppo	.75	41.20	72.82	10	Oppo	1.08	34.75	57.78	20
Phho	.20	10.99	19.42	45	Phho	.54	17.36	28.88	80
Lare	.01	.55	.97	5	Spco	.01	.32	.53	10
					Alde	.05	1.61	2.67	45
Forb Total	1.03	56.59	100.00		Depi	.02	.64	1.07	15
					Lare	.01	.32	.53	10
Grass and Forb Total	1.82	100.00			Forb Total	1.87	60.13	100.00	
					Grass and Forb Total	3.11	100.00		



# OPTIONAL FORM NO. 10 - 1962 EDITION

Form 10

Form 10

For use in connection with the 1962-63 season

For use in connection with the 1962-63 season

1962-63 season

1962-63 season

Crop	Yield	Area	Total	Crop	Yield	Area	Total
Wheat	1.25	100.00	125.00	Wheat	1.25	100.00	125.00
Barley	1.00	100.00	100.00	Barley	1.00	100.00	100.00
Oats	1.50	100.00	150.00	Oats	1.50	100.00	150.00
Rye	1.75	100.00	175.00	Rye	1.75	100.00	175.00
Triticale	1.25	100.00	125.00	Triticale	1.25	100.00	125.00
Other	1.00	100.00	100.00	Other	1.00	100.00	100.00
Total				Total			
1,000.00				1,000.00			
Wheat	1.25	100.00	125.00	Wheat	1.25	100.00	125.00
Barley	1.00	100.00	100.00	Barley	1.00	100.00	100.00
Oats	1.50	100.00	150.00	Oats	1.50	100.00	150.00
Rye	1.75	100.00	175.00	Rye	1.75	100.00	175.00
Triticale	1.25	100.00	125.00	Triticale	1.25	100.00	125.00
Other	1.00	100.00	100.00	Other	1.00	100.00	100.00
Total				Total			
1,000.00				1,000.00			

OPPENHIEMER ALLOTMENT - EAST PASTURE

C3-1

Artr-Agsm Type - Sprayed  
N exp., 2° slope

5 July 1968

C4-1

Artr-Agsm Type  
SW exp., 0.5° slope

5 July 1968

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Shrub Total	0.00				Artr	16.51			90
Agsm	.79	53.04	66.40	75	Shrub Total	16.51			
Cael	.01	.67	.84	5	Agsm	.39	20.21	33.91	60
Pose	.27	18.12	22.68	70	Pose	.54	27.97	46.96	70
Sihy	.12	8.05	10.08	35	Sihy	.09	4.66	7.83	20
Grass Total	1.19	79.88	100.00		Stco	.13	6.74	11.30	20
Alac	.03	2.01	10.00	25	Grass Total	1.15	59.58	100.00	
Crepis spp.	.01	.67	3.33	5	Andi	.03	1.55	3.85	5
Eren	.01	.67	3.33	5	Arabis spp.	.01	.52	1.28	10
Oppo	.20	13.42	66.68	10	Aspu	.02	1.04	2.56	15
Phho	.01	.67	3.33	5	Eren	.04	2.07	5.13	40
Phlo	.02	1.34	6.67	15	Erov	.01	.52	1.28	5
Gara	.01	.67	3.33	5	Maca	.01	.52	1.28	5
Lare	.01	.67	3.33	10	Oppo	.46	28.83	58.99	30
Forb Total	.30	20.12	100.00		Phho	.12	6.22	15.38	75
Grass and					SpcO	.01	.52	1.28	10
Forb Total	1.49	100.00			Alde	.05	2.59	6.41	50
					Lare	.02	1.04	2.56	15
					Forb Total	.78	40.42	100.00	
					Grass and				
					Forb Total	1.93	100.00		





OPPENHIEMER ALLOTMENT - EAST PASTURE

C5-1

Artr-Agsm Type - Sprayed  
NE exp., 0.5° slope

7 Aug. 1967

C6-1

Artr-Agsm Type - Sprayed  
N NE exp., 1.5° slope

7 Aug. 1967

	Cover %	Comp. % all G & F	Comp. % by Group	% Freq.		Cover %	Comp. % all G & F	Comp. % by Group	% Freq.
Avg.	Avg.				Avg.	Avg.			
Shrub Total (Recent Spray)					Shrub Total				
Agsm	.89	36.94	54.60	90	Agsm	.58	16.48	45.31	75
Pose	.63	26.14	38.65	85	Orhy	.10	2.84	7.81	5
Sihy	.03	1.24	1.84	5	Pose	.56	15.91	43.75	60
Stco	.08	3.32	4.91	10	Sihy	.04	1.14	3.13	15
Grass Total	1.63	67.64	100.00		Grass Total	1.28	36.37	100.00	
Alac	.01	.41	1.28	5	Eren	.03	.85	1.34	30
Crepis spp.	.01	.41	1.28	5	Erov	.01	.28	.45	5
Eren	.02	.83	2.56	20	Lofo	.01	.28	.45	5
Oppo	.60	24.91	76.94	5	Oppo	1.81	51.42	80.80	30
Phho	.11	4.56	14.10	45	Phho	.32	9.09	14.28	55
Phlo	.01	.41	1.28	10	Phlo	.04	1.14	1.79	40
Alde	.02	.83	2.56	15	Alde	.02	.57	.89	15
Forb Total	.78	32.36	100.00		Forb Total	2.24	63.63	100.00	
Grass and Forb Total	2.41	100.00			Grass and Forb Total	3.52	100.00		

ANNUAL REPORT - 2000

1. The following table shows the results of the survey conducted in 2000.

2. The following table shows the results of the survey conducted in 2001.

3. The following table shows the results of the survey conducted in 2002.

4. The following table shows the results of the survey conducted in 2003.

2000				2001				2002				2003			
Group A				Group B				Group C				Group D			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
5	6	7	8	5	6	7	8	5	6	7	8	5	6	7	8
9	10	11	12	9	10	11	12	9	10	11	12	9	10	11	12
13	14	15	16	13	14	15	16	13	14	15	16	13	14	15	16
17	18	19	20	17	18	19	20	17	18	19	20	17	18	19	20
21	22	23	24	21	22	23	24	21	22	23	24	21	22	23	24
25	26	27	28	25	26	27	28	25	26	27	28	25	26	27	28
29	30	31	32	29	30	31	32	29	30	31	32	29	30	31	32
33	34	35	36	33	34	35	36	33	34	35	36	33	34	35	36
37	38	39	40	37	38	39	40	37	38	39	40	37	38	39	40
41	42	43	44	41	42	43	44	41	42	43	44	41	42	43	44
45	46	47	48	45	46	47	48	45	46	47	48	45	46	47	48
49	50	51	52	49	50	51	52	49	50	51	52	49	50	51	52
53	54	55	56	53	54	55	56	53	54	55	56	53	54	55	56
57	58	59	60	57	58	59	60	57	58	59	60	57	58	59	60
61	62	63	64	61	62	63	64	61	62	63	64	61	62	63	64
65	66	67	68	65	66	67	68	65	66	67	68	65	66	67	68
69	70	71	72	69	70	71	72	69	70	71	72	69	70	71	72
73	74	75	76	73	74	75	76	73	74	75	76	73	74	75	76
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93	94	95	96	93	94	95	96	93	94	95	96	93	94	95	96
97	98	99	100	97	98	99	100	97	98	99	100	97	98	99	100
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OPPENHIEMER ALLOTMENT - EAST PASTURE

C5-1

Artr-Agsm Type - Sprayed  
NE exp., 0.5° slope

25 June 1968

C6-1

Artr-Agsm Type - Sprayed  
N NE exp., 1.5° slope

25 June 1968

	Cover %	Comp. % all G & F	Comp. % by Group	% Freq.		Cover %	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	10.55			40	Artr	4.88			35
Shrub Total	10.55				Shrub Total	4.88			
Agsm	1.04	55.33	66.24	85	Agsm	.52	27.95	37.68	75
Orhy	.01	.53	.64	5	Orhy	.10	5.38	7.25	5
Pofe	.05	2.66	3.18	10	Pose	.72	38.70	52.17	75
Pose	.36	19.15	22.93	80	Sihy	.04	2.15	2.90	20
Sihy	.11	5.85	7.01	25					
Grass Total	1.57	83.52	100.00		Grass Total	1.38	74.18	100.00	
Alac	.01	.53	3.23	5	Aspu	.01	.54	2.08	5
Crepis spp.	.02	1.06	6.46	15	Eren	.04	2.15	8.33	35
Eren	.01	.53	3.23	10	Lofo	.02	1.08	4.17	20
Oppo	.10	5.32	32.22	5	Oppo	.25	13.44	52.09	20
Phho	.01	.53	3.23	10	Phho	.07	3.76	14.58	45
Phlo	.04	2.13	12.90	35	Phlo	.05	2.69	10.42	45
Trgy	.01	.53	3.23	10	Trgy	.02	1.08	4.17	15
Alde	.01	.53	3.23	10	Cora	.01	.54	2.08	5
Cora	.04	2.13	12.90	40	Lare	.01	.54	2.08	10
Gara	.01	.53	3.23	5	Forb Total	.48	25.82	100.00	
Gisi	.01	.53	3.23	10					
Lare	.01	.53	3.23	10	Grass and				
Unk.	.03	1.60	9.68	25	Forb Total	1.86	100.00		
Forb Total	.31	16.48	100.00						
Grass and									
Forb Total	1.88	100.00							





OPPENHIEMER ALLOTMENT - EAST PASTURE

C7-1

C8-1

Artr-Agsm Type  
E exp., 0.25° slope

Juos Type  
S exp., 10° slope

23 Aug. 1967

24 Aug. 1967

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	22.26			90	Arno	4.86			40
					Cemo	2.01			10
Shrub Total	22.26				Shrub Total	6.87			
Agsm	.43	33.87	50.59	85	Agsp	.20	11.49	68.97	25
Kocr	.03	2.36	3.53	5	Orhy	.06	3.45	20.69	15
Pofe	.10	7.87	11.76	5	Pose	.03	1.72	10.34	10
Pose	.23	18.11	27.06	55					
Sihy	.06	4.72	7.06	15	Grass Total	.29	16.66	100.00	
Grass Total	.85	66.93	100.00		Arfe	.02	1.15	1.38	20
Alac	.02	1.57	4.76	15	Crfc	.05	2.87	3.45	5
Eren	.02	1.57	4.76	20	Erea	.01	.57	.69	5
Oppo	.30	23.62	71.44	5	Haac	1.03	59.21	71.03	45
Phho	.05	3.94	11.90	30	Oppo	.25	14.37	17.24	5
Phlo	.01	.79	2.38	10	Phho	.08	4.60	5.52	20
Trgy	.01	.79	2.38	5	Alde	.01	.57	.69	5
Alde	.01	.79	2.38	10	Forb Total	1.45	83.34	100.00	
Forb Total	.42	33.07	100.00		Grass and Forb Total	1.74	100.00		
Grass and Forb Total	1.27	100.00							

## GOVERNMENT ALLOTMENT - EAST DISTRICT

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OPPENHIEMER ALLOTMENT - EAST PASTURE

C7-1

C8-1

Artr-Agsm Type  
E exp., 0.25° slope

Juos Type  
S exp., 10° slope

25 June 1968

6 July 1968

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	21.40			90	Arno	11.41			45
					Cemo	2.50			5
Shrub Total	21.40				Shrub Total	13.91			
Agsm	.41	32.04	44.09	85	Agsp	.23	21.90	54.76	25
Kocr	.03	2.34	3.22	5	Orhy	.11	10.48	26.19	15
Pose	.28	21.88	30.11	65	Pose	.08	7.62	19.05	15
Sihy	.21	16.41	22.58	25					
Grass Total	.93	72.67	100.00		Grass Total	.42	40.00	100.00	
Arabis spp.	.01	.78	2.86	10	Arho	.01	.95	1.59	5
Eren	.03	2.34	8.57	25	Arfe	.04	3.81	6.35	40
Phho	.03	2.34	8.57	30	Crfc	.01	.95	1.59	5
Phlo	.02	1.56	5.71	20	Erbr	.01	.95	1.59	5
Oppo	.15	11.72	42.86	5	Erea	.01	.95	1.59	5
Trgy	.02	1.56	5.71	15	Haac	.41	39.06	65.07	35
Alde	.01	.78	2.86	5	Oppo	.10	9.52	15.87	5
Cora	.01	.78	2.86	5	Phho	.03	2.86	4.76	25
Gara	.02	1.56	5.71	15	Alde	.01	.95	1.59	10
Gisi	.01	.78	2.86	5					
Lare	.04	3.13	11.43	20	Forb Total	.63	60.00	100.00	
Forb Total	.35	27.33	100.00		Grass and Forb Total	1.05	100.00		
Grass and Forb Total	1.28	100.00							



OPPENHIEMER ALLOTMENT - WEST PASTURE

C1-1

Artr-Agsm Type  
SE exp., 1° slope

8 Aug. 1967

C2-1

Artr-Agsm Type - Sprayed  
N NE exp., 2° slope

7 Aug. 1967

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Arsp	1.71			25	Artr	3.85			30
Artr	7.55			35	Atco	.20			5
Shrub Total	9.26				Shrub Total	4.05			
Agsm	.03	1.15	8.57	25	Agsm	.94	27.08	53.71	95
Orhy	.12	4.58	34.29	35	Pose	.74	21.33	42.29	90
Pose	.17	6.49	48.57	40	Sihy	.07	2.02	4.00	30
Sihy	.03	1.15	8.57	10					
Grass Total	.35	13.37	100.00		Grass Total	1.75	50.43	100.00	
Eren	.02	.76	.88	20	Alac	.01	.29	.58	5
Lofo	.01	.38	.44	5	Crepis spp.	.01	.29	.58	10
Oppo	2.10	80.15	92.52	10	Eren	.04	1.15	2.32	30
Phlo	.03	1.15	1.32	25	Oppo	1.45	41.77	84.33	20
Spco	.01	.38	.44	10	Phho	.10	2.88	5.81	35
Alde	.01	.38	.44	10	Phlo	.02	.58	1.16	15
Cora	.02	.76	.88	15	Trgy	.01	.29	.58	10
Depi	.05	1.91	2.20	5	Alde	.02	.58	1.16	15
Lare	.02	.76	.88	15	Cora	.02	.58	1.16	20
Forb Total	2.27	86.63	100.00		Depi	.01	.29	.58	5
					Lare	.02	.58	1.16	20
Grass and					Oean	.01	.29	.58	5
Forb Total	2.62	100.00			Forb Total	1.72	49.57	100.00	
					Grass and				
					Forb Total	3.47	100.00		





OPPENHIEMER ALLOTMENT - WEST PASTURE

C1-1

Arthr-Agsm Type  
SE exp., 1<sup>o</sup> slope

4 July 1968

C2-1

Arthr-Agsm Type - Sprayed  
N NE exp., 2<sup>o</sup> slope

4 July 1968

	Cover %	Comp. % all	Comp. % by	% Freq.		Cover %	Comp. % all	Comp. % by	% Freq.
	Avg.	G & F	Group			Avg.	G & F	Group	
Arsp	1.53			30	Arthr	3.90			25
Arthr	6.50			30	Atco	.25			5
Shrub Total	8.03				Shrub Total	4.15			
Agsm	.09	7.38	16.07	30	Agsm	1.16	42.97	55.24	100
Orhy	.12	9.84	21.43	30	Pose	.71	26.30	33.81	70
Pose	.31	25.40	55.36	35	Sihy	.21	7.78	10.00	45
Sihy	.04	3.28	7.14	15	Brte	.02	.74	.95	15
Grass Total	.56	45.90	100.00		Grass Total	2.10	77.79	100.00	
Andi	.10	8.20	15.15	5	Arabis spp.	.01	.37	1.67	10
Eren	.02	1.64	3.03	15	Crepis spp.	.03	1.11	5.00	20
Lofo	.01	.82	1.52	5	Eren	.04	1.48	6.67	35
Oppo	.45	36.88	68.17	10	Lofo	.01	.37	1.67	5
Phlo	.03	2.46	4.54	30	Oppo	.28	10.37	46.65	20
Spco	.01	.82	1.52	10	Phho	.04	1.48	6.67	35
Trgy	.01	.82	1.52	5	Phlo	.04	1.48	6.67	35
Alde	.02	1.64	3.03	15	Alde	.06	2.22	10.00	60
Cora	.01	.82	1.52	5	Cora	.02	.74	3.33	20
Forb Total	.66	54.10	100.00		Depi	.01	.37	1.67	5
Grass and					Lare	.05	1.85	8.33	45
Forb Total	1.22	100.00			Unk.	.01	.37	1.67	10
					Forb Total	.60	22.21	100.00	
					Grass and				
					Forb Total	2.70	100.00		





OPPENHIEMER ALLOTMENT - WEST PASTURE

C3-1

Artr-Agsm Type - Sprayed  
N exp., 0.25° slope

6 Aug. 1967

C4-1

Artr-Agsm Type  
N exp., 2° slope

8 Aug. 1967

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	.95			25	Artr	6.64			70
Shrub Total	.95				Atco	.01			5
Agsm	1.26	40.80	68.11	95	Shrub Total	6.65			
Kocr	.03	4.85	1.62	5	Agsm	.53	36.32	56.38	85
Orhy	.15	11.97	8.11	15	Pose	.28	19.18	29.79	65
Pose	.37	1.29	20.00	60	Sihy	.03	2.05	3.19	5
Brte	.04	.97	2.16	15	Stco	.10	6.85	10.64	5
Grass Total	1.85	59.88	100.00		Grass Total	.94	64.40	100.00	
Eren	.03	.97	2.42	30	Crepis spp.	.01	.68	1.92	5
Oppo	1.05	33.98	84.67	15	Eren	.03	2.05	5.77	30
Phho	.04	1.29	3.23	20	Erov	.01	.68	1.92	5
Trgy	.01	.32	.81	5	Phho	.34	23.29	65.39	35
Alde	.05	1.62	4.03	45	Trgy	.02	1.37	3.85	15
Cora	.03	.97	2.42	25	Alde	.08	5.48	15.38	75
Lare	.03	.97	2.42	25	Cora	.02	1.37	3.85	15
Forb Total	1.24	40.12	100.00		Lare	.01	.68	1.92	5
Grass and Forb Total	3.09	100.00			Forb Total	.52	35.60	100.00	
					Grass and Forb Total	1.46	100.00		



OPPENHIEMER ALLOTMENT - WEST PASTURE

C3-1

Artr-Agsm Type - Sprayed  
N exp., 0.25° slope

4 July 1968

C4-1

Artr-Agsm Type  
N exp., 2° slope

4 July 1968

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	1.45			20	Artr	7.91			70
Shrub Total	1.45				Atco	.01			5
Agsm	1.91	60.82	76.10	100	Shrub Total	7.92			
Orhy	.10	3.18	3.98	5	Agsm	.42	33.86	42.43	65
Pose	.46	14.65	18.32	60	Orhy	.03	2.42	3.03	10
Stco	.03	.96	1.20	5	Pose	.40	32.26	40.40	60
Brte	.01	.32	.40	10	Sihy	.04	3.23	4.04	15
Grass Total	2.51	79.93	100.00		Stco	.10	8.06	10.10	5
Alte	.01	.32	1.59	5	Grass Total	.99	79.83	100.00	
Crepis spp.	.01	.32	1.59	5	Arabis spp.	.01	.81	4.00	10
Eren	.02	.64	3.17	15	Crepis spp.	.01	.81	4.00	10
Lofo	.01	.32	1.59	5	Eren	.04	3.23	16.00	35
Oppo	.33	10.51	52.37	15	Erov	.01	.81	4.00	5
Phho	.03	.96	4.76	10	Phho	.03	2.42	12.00	30
Phlo	.03	.96	4.76	30	Phlo	.02	1.61	8.00	15
Trgy	.01	.32	1.59	5	Trgy	.05	4.03	20.00	25
Alde	.08	2.54	12.70	75	Alde	.06	4.84	24.00	60
Cora	.01	.32	1.59	5	Cora	.02	1.61	8.00	20
Cram	.01	.32	1.59	5	Forb Total	.25	20.17	100.00	
Lare	.08	2.54	12.70	75	Grass and Forb Total	1.24	100.00		
Forb Total	.63	20.07	100.00						
Grass and Forb Total	3.14	100.00							





OPPENHIEMER ALLOTMENT - WEST PASTURE

C5-1

Artr-Agsm Type  
SE exp., 0.75° slope

8 Aug. 1967

C6-1

Artr-Agsm Type  
N NE exp., 1° slope

7 Aug. 1967

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	7.10			40	Arsp	.10			5
Shrub Total	7.10				Artr	10.75			60
					Atga	.26			15
Agsm	.80	23.32	75.47	100	Shrub Total	11.11			
Pose	.15	4.37	14.15	65					
Stco	.11	3.21	10.38	30	Agsm	.54	29.37	46.55	60
Grass Total	1.06	30.90	100.00		Orhy	.13	7.07	11.21	20
Eren	.01	.29	.42	5	Pose	.30	16.30	25.86	55
Erov	.01	.29	.42	5	Sihy	.19	10.33	16.38	40
Oppo	1.85	53.95	78.06	35	Grass Total	1.16	63.07	100.00	
Phho	.34	9.91	14.35	45					
Phlo	.05	1.45	2.11	45	Crepis spp.	.01	.54	1.47	10
Trgy	.01	.29	.42	5	Eren	.03	1.63	4.41	30
Alde	.10	2.92	4.22	95	Erov	.01	.54	1.47	5
Forb Total	2.37	69.10	100.00		Oppo	.50	27.17	73.53	10
Grass and					Phho	.09	4.89	13.24	25
Forb Total	3.43	100.00			Phlo	.01	.54	1.47	10
					Trgy	.01	.54	1.47	5
					Cora	.01	.54	1.47	10
					Lare	.01	.54	1.47	5
					Forb Total	.68	36.93	100.00	
					Grass and				
					Forb Total	1.84	100.00		





## OPPENHIEMER ALLOTMENT - WEST PASTURE

C5-1

Artr-Agsm Type  
SE exp., 0.75° slope

4 July 1968

C6-1

Artr-Agsm Type  
N NE exp., 1° slope

25 June 1968

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	4.95			45	Chvi	.01			5
Shrub Total	4.95				Arsp	.15			5
Agsm	.76	41.53	73.08	95	Artr	10.43			60
Pose	.22	12.02	21.15	65	Atga	.15			10
Sihiy	.01	.55	.96	5	Shrub Total	10.74			
Stco	.05	2.73	4.81	25	Agsm	.74	42.04	64.91	60
Grass Total	1.04	56.83	100.00		Orhy	.08	4.55	7.02	15
Andi	.02	1.09	2.53	15	Pose	.21	11.93	18.42	60
Arabis spp.	.01	.55	1.27	5	Sihiy	.11	6.25	9.65	25
Crepis spp.	.01	.55	1.27	5	Grass Total	1.14	64.77	100.00	
Eren	.01	.55	1.27	10	Arabis spp.	.01	.57	1.61	10
Erov	.01	.55	1.27	10	Crepis spp.	.01	.57	1.61	10
Oppo	.50	27.32	63.28	20	Eren	.02	1.14	3.23	15
Phho	.06	3.28	7.59	35	Lofo	.01	.57	1.61	5
Phlo	.05	2.73	6.33	50	Oppo	.45	25.56	72.59	10
Trgy	.02	1.09	2.53	15	Phho	.02	1.14	3.23	20
Alde	.10	5.46	12.66	95	Phlo	.05	2.84	8.06	50
Forb Total	.79	43.17	100.00		Trgy	.03	1.70	4.84	30
Grass and					Cora	.01	.57	1.61	5
Forb Total	1.83	100.00			Lare	.01	.57	1.61	5
					Forb Total	.62	35.23	100.00	
					Grass and				
					Forb Total	1.76	100.00		



OPPENHIEMER ALLOTMENT - WEST PASTURE

C7-1

Artr-Agsm Type  
S exp., 1° slope

23 Aug. 1967

C9-1

Juos Type  
S exp., Variable slope (3-8°)

24 Aug. 1967

	Cover %	Comp. % all G & F	Comp. % by Group	% Freq.		Cover %	Comp. % all G & F	Comp. % by Group	% Freq.
	Avg.					Avg.			
Artr	8.90			75	Cemo	4.75			10
Shrub Total	8.90				Arno	6.28			50
					Artr	1.40			15
Agsm	.25	25.00	32.06	40	Shrub Total	12.43			
Orhy	.18	18.00	23.07	40					
Pose	.11	11.00	14.10	25	Agsm	.08	5.84	6.78	10
Sihiy	.14	14.00	17.95	20	Agsp	.91	66.42	77.12	55
Stco	.08	8.00	10.26	10	Pofe	.15	10.95	12.71	15
Brte	.02	2.00	2.56	15	Pose	.03	2.19	2.54	10
					Sihiy	.01	.73	.85	5
Grass Total	.78	78.00	100.00						
					Grass Total	1.18	86.13	100.00	
Alte	.01	1.00	4.55	5					
Eren	.04	4.00	18.17	35	Arfe	.01	.73	5.26	5
Maca	.01	1.00	4.55	5	Haac	.10	7.30	52.64	5
Phho	.03	3.00	13.64	5	Phho	.06	4.38	31.58	15
Phlo	.02	2.00	9.09	20	Trgy	.01	.73	5.26	5
SpcO	.01	1.00	4.55	5	Depi	.01	.73	5.26	10
Trgy	.01	1.00	4.55	5					
Alde	.09	9.00	40.90	85	Forb Total	.19	13.87	100.00	
Forb Total	.22	22.00	100.00		Grass and				
					Forb Total	1.37	100.00		
Grass and									
Forb Total	1.00	100.00							





## OPPENHIEMER ALLOTMENT - WEST PASTURE

C7-1

Artr-Agsm Type  
S exp., 1° slope

26 June 1968

C9-1

Juos Type  
S exp., Variable slope (3-8°)

6 July 1968

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	18.60			75	Cemo	6.05			20
Shrub Total	18.60				Arno	7.21			50
					Artr	1.00			10
Agsm	.17	18.46	23.62	45	Shrub Total	14.26			
Orhy	.24	26.08	33.33	35					
Pose	.09	9.78	12.50	25	Agsm	.15	10.14	12.10	20
Sihy	.14	15.22	19.44	25	Agsp	.81	54.70	65.32	55
Stco	.08	8.70	11.11	10	Pofe	.23	15.54	18.55	15
					Pose	.05	3.38	4.03	10
Grass Total	.72	78.24	100.00		Grass Total	1.24	83.76	100.00	
Eren	.04	4.35	20.00	35					
Maca	.01	1.09	5.00	5	Arabis spp.	.01	.68	4.17	5
Phho	.01	1.09	5.00	10	Arfe	.01	.68	4.17	10
Phlo	.03	3.26	15.00	30	Eren	.01	.68	4.17	10
Spco	.01	1.09	5.00	5	Haac	.10	6.76	41.65	5
Trgy	.01	1.09	5.00	10	Phho	.05	3.38	20.83	25
Alde	.08	8.70	40.00	80	Trgy	.04	2.70	16.67	40
Lare	.01	1.09	5.00	5	Cram	.01	.68	4.17	5
					Lare	.01	.68	4.17	5
Forb Total	.20	21.76	100.00		Forb Total	.24	16.24	100.00	
Grass and Forb Total	.92	100.00			Grass and Forb Total	1.48	100.00		





POWDER RIM ALLOTMENT - PASTURE A

C1-1

Artr-Agsm Type - Sprayed  
NE exp., 2° slope

26 July 1967

C2-1

Artr - Agsp Type - Sprayed  
NE exp., 1° slope

28 July 1967

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	.30			10	Atco	.01			10
Shrub Total	.30				Shrub Total	.01			
Agsm	1.55	32.41	39.34	55	Agsm	.35	9.38	10.17	25
Agsp	.45	9.41	11.42	25	Agsp	1.33	35.67	38.67	45
Kocr	.05	1.05	1.27	5	Orhy	.15	4.02	4.36	10
Orhy	.18	3.77	4.57	20	Pose	.74	19.84	21.51	50
Pofe	.48	10.04	12.18	35	Sihy	.26	6.97	7.56	30
Pose	.74	15.49	18.78	60	Stco	.61	16.35	17.73	30
Sihy	.28	5.86	7.11	30					
Stco	.21	4.39	5.33	20	Grass Total	3.44	92.23	100.00	
Grass Total	3.94	82.42	100.00		Alte	.01	.27	3.45	5
Eren	.03	.63	3.57	30	Eren	.08	2.14	27.59	40
Oppo	.66	13.81	78.58	15	Ermi	.04	1.07	13.79	20
Phlo	.02	.42	2.38	15	Phho	.08	2.14	27.59	10
Chat	.09	1.88	10.71	40	Phlo	.06	1.61	20.68	10
Cora	.02	.42	2.38	15	Sili	.01	.27	3.45	10
Gisi	.01	.21	1.19	5	Cora	.01	.27	3.45	10
Lare	.01	.21	1.19	10	Forb Total	.29	7.77	100.00	
Forb Total	.84	17.58	100.00		Grass and Forb Total	3.73	100.00		
Grass and Forb Total	4.78	100.00							



## POWDER RIM ALLOTMENT - PASTURE A

C1-1

C2-1

Artr-Agsm Type - Sprayed  
NE exp., 2° slopeArtr-Agsp Type - Sprayed  
NE exp., 1° slope

22 June 1968

22 June 1968

	Cover %	Comp. % all G & F	Comp. % by Group	% Freq.		Cover %	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	.30			10	Shrub Total	.00			
Shrub Total	.30				Agsm	.08	3.08	3.36	15
Agsm	1.23	45.73	48.24	65	Agsp	1.11	42.71	46.64	60
Agsp	.50	18.59	19.61	35	Orhy	.10	3.85	4.20	10
Kocr	.03	1.12	1.18	5	Pofe	.03	1.15	1.26	5
Orhy	.13	4.83	5.10	25	Pose	.51	19.62	21.43	70
Pofe	.14	5.20	5.49	25	Sihy	.10	3.85	4.20	30
Pose	.35	13.01	13.72	55	Stco	.45	17.31	18.91	25
Stco	.16	5.95	6.27	25	Grass Total	2.38	91.57	100.00	
Brte	.01	.37	.39	5	Alte	.03	1.15	13.63	30
Grass Total	2.55	94.80	100.00		Arabis spp.	.01	.38	4.55	5
Alte	.02	.74	14.30	15	Eren	.03	1.15	13.63	25
Arabis spp.	.01	.37	7.14	5	Ermi	.03	1.15	13.63	20
Eren	.01	.37	7.14	10	Erov	.01	.38	4.55	5
Phlo	.04	1.49	28.57	35	Phho	.05	1.92	22.73	30
Chat	.01	.37	7.14	5	Phlo	.05	1.92	22.73	30
Cora	.01	.37	7.14	5	Chat	.01	.38	4.55	5
Lare	.04	1.49	28.57	35	Forb Total	.22	8.43	100.00	
Forb Total	.14	5.20	100.00		Grass and Forb Total	2.60	100.00		
Grass and Forb Total	2.69	100.00							





POWDER RIM ALLOTMENT - PASTURE A

C3-1

Artr-Agsm Type  
NE exp., 0.5° slope

28 July 1967

C4-1

Artr-Agsm Type  
W exp., 1° slope

28 July 1967

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	10.70			50	Artr	8.58			40
Atco	.15			5	Chvi	.43			20
					Koam	.08			20
Shrub Total	10.85				Shrub Total	9.09			
Agsm	.54	19.49	50.47	80	Agsm	.24	23.53	68.57	55
Orhy	.01	.36	.93	5	Pose	.03	2.94	8.57	5
Pose	.44	15.88	41.12	55	Sihy	.08	7.84	22.86	15
Sihy	.08	2.89	7.48	10					
Grass Total	1.07	38.62	100.00		Grass Total	.35	34.31	100.00	
Eren	.02	.72	1.18	15	Arfe	.03	2.94	4.48	5
Erov	.15	5.42	8.82	15	Arho	.25	24.52	37.31	15
Oppo	.50	18.05	29.41	5	Erov	.03	2.94	4.48	5
Pefr	.01	.36	.59	10	Erpu	.02	1.96	2.99	15
Phho	.97	35.02	57.06	75	Haac	.05	4.90	7.46	10
Cora	.05	1.81	2.94	45	Phho	.28	27.45	41.79	60
					Chat	.01	.98	1.49	5
Forb Total	1.70	61.38	100.00		Forb Total	.67	65.69	100.00	
Grass and Forb Total	2.77	100.00			Grass and Forb Total	1.02	100.00		





# CLOTHES FROM KASSIS

## MODELS

Lynn Painter

Jean Duke

Oynette Alley

Patty Miller

Michelle Fisser

Barbara Messer

Phillis Messer

Ann Willey

Noey Hooper

Bessie Timmons

Virginia Barnes

Jeanne Alley

POWDER RIM ALLOTMENT - PASTURE A

C3-1

C4-1

Artr-Agsm Type  
NE exp., 0.5° slope

Artr-Agsm Type  
W exp., 1° slope

22 June 1968

22 June 1968

	Cover %	Comp. % all G & F	Comp. % by Group	% Freq.		Cover %	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	11.35			50	Artr	9.03			40
Atco	.10			5	Chvi	.56			25
					Koam	.02			15
Shrub Total	11.45				Shrub Total	9.61			
Agsm	.48	34.52	65.76	75	Agsm	.26	36.62	74.28	50
Orhy	.01	.72	1.36	5	Orhy	.01	1.41	2.86	10
Pose	.20	14.39	27.40	50	Pose	.04	5.63	11.43	15
Sihy	.04	2.88	5.48	20	Sihy	.04	5.63	11.43	20
Grass Total	.73	52.51	100.00		Grass Total	.35	49.29	100.00	
Alte	.01	.72	1.52	5	Arho	.15	21.13	41.67	5
Arabis spp.	.02	1.44	3.03	15	Erov	.01	1.41	2.78	10
Eren	.02	1.44	3.03	20	Erpu	.03	4.23	8.33	25
Erov	.09	6.47	13.64	20	Haac	.04	5.63	11.11	15
Oppo	.25	17.99	37.86	5	Phho	.12	16.90	33.33	50
Pefr	.01	.72	1.52	5	Lofo	.01	1.41	2.78	5
Phho	.21	15.11	31.81	80					
Toin	.01	.72	1.52	10	Forb Total	.36	50.71	100.00	
Trgy	.01	.72	1.52	5					
Cora	.02	1.44	3.03	15	Grass and Forb Total	.71	100.00		
Unk.	.01	.72	1.52	5					
Forb Total	.66	47.49	100.00						
Grass and Forb Total	1.39	100.00							

POWDER RIM ALLOTMENT - PASTURE A

C4-2

Artr-Agsm Type  
E exp., 2° slope

28 July 1967

C5-1

Artr-Agsm Type  
N NW exp., 2° slope

9 Aug. 1967

	Cover %	Comp. % all	Comp. % by	% Freq.		Cover %	Comp. % all	Comp. % by	% Freq.
	Avg.	G & F	Group			Avg.	G & F	Group	
Artr	10.38			55	Artr	17.36			70
Shrub Total	10.38				Shrub Total	17.36			
Agsm	.37	26.44	40.66	70	Agsm	.75	43.63	66.38	85
Orhy	.06	4.29	6.59	10	Orhy	.20	11.63	17.70	15
Pose	.10	7.14	10.99	5	Pose	.14	8.14	12.39	60
Stco	.38	27.15	41.76	35	Sihy	.01	.58	.88	5
					Stco	.03	1.74	2.65	5
Grass Total	.91	65.02	100.00		Grass Total	1.13	65.72	100.00	
Ermi	.03	2.14	6.12	10	Arabis spp.	.02	1.16	3.39	20
Erpu	.03	2.14	6.12	25	Erov	.01	.58	1.69	5
Pefr	.01	.71	2.04	5	Erpu	.01	.58	1.69	10
Phho	.39	27.86	79.60	30	Haac	.25	14.53	42.38	5
Trgy	.01	.71	2.04	5	Phlo	.03	1.74	5.08	30
Chat	.01	.71	2.04	5	Phho	.25	14.53	42.38	35
Unk.	.01	.71	2.04	10	Cora	.02	1.16	3.39	15
Forb Total	.49	34.98	100.00		Forb Total	.59	34.28	100.00	
Grass and Forb Total	1.40	100.00			Grass and Forb Total	1.72	100.00		





POWDER RIM ALLOTMENT - PASTURE A

C4-2

C5-1

Artr-Agsm Type  
E exp., 2° slope

Artr-Agsm Type  
N NW exp., 2° slope

22 June 1968

21 June 1968

	Cover %	Comp. % all G & F	Comp. % by Group	% Freq.		Cover %	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	13.55			55	Artr	14.71			70
Shrub Total	13.55				Shrub Total	14.71			
Agsm	.61	43.88	53.52	75	Agsm	.87	48.59	60.42	90
Orhy	.03	2.16	2.63	10	Orhy	.25	13.97	17.36	15
Pose	.09	6.47	7.89	20	Pose	.29	16.20	20.14	50
Stco	.41	29.50	35.96	35	Stco	.03	1.68	2.08	5
Grass Total	1.14	82.01	100.00		Grass Total	1.44	80.44	100.00	
Eren	.02	1.44	8.00	15	Alte	.01	.56	2.86	5
Ermi	.04	2.88	16.00	20	Arabis spp.	.02	1.12	5.71	20
Erov	.01	.72	4.00	5	Erov	.01	.56	2.86	5
Maca	.01	.72	4.00	10	Erpu	.02	1.12	5.71	15
Pefe	.01	.72	4.00	5	Haac	.10	5.59	28.57	5
Phho	.11	7.91	44.00	40	Phlo	.05	2.79	14.29	45
Phlo	.04	2.88	16.00	15	Phho	.13	7.26	37.14	40
Trgy	.01	.72	4.00	5	Cora	.01	.56	2.86	10
Forb Total	.25	17.99	100.00		Forb Total	.35	19.56	100.00	
Grass and Forb Total	1.39	100.00			Grass and Forb Total	1.79	100.00		





POWDER RIM ALLOTMENT - PASTURE A

C6-1

Artr-Agsm Type  
NE exp., 2° slope

9 Aug. 1967

C7-1

Artr-Agsp Type  
NE E exp., 3.5° slope

9 Aug. 1967

	Cover %	Comp. % all	Comp. % by	% Freq.		Cover %	Comp. % all	Comp. % by	% Freq.
	Avg.	G & F	Group			Avg.	G & F	Group	Freq.
Artr	17.69			60	Artr	5.86			25
Shrub Total	17.69				Shrub Total	5.86			
Agsm	.21	18.58	28.76	65	Agsp	1.57	56.88	91.28	80
Cael	.01	.88	1.37	5	Kocr	.13	4.71	7.56	20
Orhy	.09	7.96	12.33	20	Orhy	.01	.36	.58	5
Pose	.03	2.66	4.11	30	Pose	.01	.36	.58	10
Sihy	.03	2.66	4.11	5					
Stco	.36	31.87	49.32	25	Grass Total	1.72	62.31	100.00	
Grass Total	.73	64.61	100.00		Alte	.01	.36	.96	5
Asdi	.01	.88	2.50	5	Aspu	.01	.36	.96	5
Eras	.01	.88	2.50	5	Ermi	.11	3.99	10.58	25
Erov	.20	17.70	50.00	5	Erpu	.02	.72	1.92	20
Pefr	.01	.88	2.50	5	Haac	.85	30.81	81.73	45
Phlo	.03	2.66	7.50	30	Phho	.04	1.45	3.85	15
Phho	.11	9.73	27.50	10	Forb Total	1.04	37.69	100.00	
Cora	.03	2.66	7.50	25	Grass and Forb Total	2.76	100.00		
Forb Total	.40	35.39	100.00						
Grass and Forb Total	1.13	100.00							



POWDER RIM ALLOTMENT - PASTURE A

C6-1

Artr-Agsm Type  
NE exp., 2° slope

21 June 1968

C7-1

Artr-Agsp Type  
NE E exp., 3.5° slope

21 June 1968

	Cover %	Comp. % all	Comp. % by	% Freq.		Cover %	Comp. % all	Comp. % by	% Freq.
	Avg.	G & F	Group			Avg.	G & F	Group	
Artr	18.43			70	Artr	6.26			25
Shrub Total	18.43				Shrub Total	6.26			
Agsm	.30	21.90	24.59	65	Agsp	1.79	64.17	88.17	80
Cael	.03	2.19	2.46	5	Kocr	.18	6.45	8.87	15
Orhy	.18	13.14	14.75	15	Pose	.06	2.15	2.96	40
Pose	.08	5.84	6.56	30	Grass Total	2.03	72.77	100.00	
Sihy	.05	3.65	4.10	5	Alte	.01	.36	1.32	5
Stco	.58	42.33	47.54	15	Arfe	.01	.36	1.32	5
Grass Total	1.22	89.05	100.00		Aspu	.04	1.43	5.26	15
Alte	.01	.73	6.67	10	Ermi	.06	2.15	7.89	10
Eras	.01	.73	6.67	5	Erpu	.07	2.51	9.21	25
Erov	.05	3.65	33.32	5	Ersi	.04	1.43	5.26	15
Pefr	.01	.73	6.67	5	Haac	.51	18.28	67.11	35
Phlo	.03	2.19	20.00	25	Phho	.02	.71	2.63	15
Phho	.03	2.19	20.00	10	Forb Total	.76	27.23	100.00	
Cora	.01	.73	6.67	10	Grass and Forb Total	2.79	100.00		
Forb Total	.15	10.95	100.00						
Grass and Forb Total	1.37	100.00							





## POWDER RIM ALLOTMENT - PASTURE A

C8-1

Juos Type  
E exp., 12° slope

16 Aug. 1967

C8-2

Juos Type  
W exp., 8° slope

16 Aug. 1967

	Cover %	Comp. % all G & F	Comp. % by Group	% Freq.		Cover %	Comp. % all G & F	Comp. % by Group	% Freq.
	Avg.					Avg.			
Artr	2.00			10	Arno	.60			5
Chvi	.05			5	Juos	31.25			40
Juos	18.25			25					
Shrub Total	20.30				Shrub Total	31.85			
Agsp	.17	21.00	27.42	25	Agsp	.42	27.45	66.66	50
Kocr	.08	9.88	12.90	15	Orhy	.15	9.80	23.81	10
Orhy	.13	16.05	20.97	15	Pofe	.05	3.27	7.94	15
Pofe	.13	16.05	20.97	20	Pose	.01	.65	1.59	10
Pose	.03	3.70	4.84	10	Grass Total	.63	41.17	100.00	
Stco	.08	9.88	12.90	10					
Grass Total	.62	76.56	100.00		Arabis spp.	.01	.65	1.11	5
Asdi	.01	1.23	5.26	5	Arfe	.03	1.96	3.33	5
Crfc	.06	7.41	31.58	10	Asdi	.01	.65	1.11	10
Erum	.05	6.17	26.32	5	Basa	.01	.65	1.11	5
Pefr	.01	1.23	5.26	5	Crfc	.23	15.03	25.55	20
Phho	.05	6.17	26.32	5	Erum	.03	1.96	3.33	5
Chat	.01	1.23	5.26	5	Haac	.06	3.92	6.67	10
Forb Total	.19	23.44	100.00		Haam	.50	32.70	55.57	5
Grass and Forb Total	.81	100.00			Pefr	.02	1.31	2.22	15
					Forb Total	.90	58.83	100.00	
					Grass and Forb Total	1.53	100.00		





POWDER RIM ALLOTMENT - PASTURE A

C8-1

C8-2

Juos Type  
E exp., 12° slope

Juos Type  
W exp., 8° slope

6 July 1968

6 July 1968

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	2.50			10	Arno	.30			5
Chvi	.03			5	Juos	30.50			40
Juos	19.00			25					
Shrub Total	21.53				Shrub Total	30.80			
Agsp	.16	20.24	23.19	15	Agsp	.44	42.33	61.97	45
Kocr	.06	7.59	8.70	15	Orhy	.08	7.69	11.27	10
Orhy	.08	10.13	11.59	10	Pofe	.11	10.58	15.49	15
Pofe	.24	30.37	34.78	35	Pose	.08	7.69	11.27	15
Pose	.02	2.53	2.90	15	Grass Total	.71	68.29	100.00	
Stco	.13	16.46	18.84	10					
Grass Total	.69	87.32	100.00		Arfe	.01	.96	3.03	10
Asdi	.02	2.53	20.00	15	Asdi	.02	1.92	6.06	20
Crfc	.01	1.27	10.00	10	Basa	.01	.96	3.03	5
Erum	.03	3.80	30.00	10	Crfc	.02	1.92	6.06	20
Pefr	.01	1.27	10.00	10	Haac	.08	7.69	24.24	15
Phho	.01	1.27	10.00	5	Haam	.15	14.42	45.46	5
Chat	.01	1.27	10.00	10	Erum	.01	.96	3.03	5
Unk.	.01	1.27	10.00	5	Pefr	.01	.96	3.03	5
					Phlo	.01	.96	3.03	5
					Cora	.01	.96	3.03	5
Forb Total	.10	12.68	100.00		Forb Total	.33	31.71	100.00	
Grass and Forb Total	.79	100.00			Grass and Forb Total	1.04	100.00		



POWDER RIM ALLOTMENT - PASTURE B

C1-1

C2-1

Atga Type  
0 slope

Artr-Agsm Type  
S exp., 1.5° slope

29 July 1967

29 July 1967

	Cover %	Comp. % all	Comp. % by	% Freq.		Cover %	Comp. % all	Comp. % by	% Freq.
	Avg.	G & F	Group			Avg.	G & F	Group	
Atga	8.25			85	Artr	10.25			60
Save	.03			5	Eula	.01			
Shrub Total	8.28				Shrub Total	10.26			
Orhy	.05	20.00	33.33	5	Agsm	1.17	49.17	55.45	85
Pose	.07	28.00	46.67	20	Pose	.19	7.98	9.00	30
Sihy	.03	12.00	20.00	10	Stco	.75	31.51	35.55	40
Grass Total	.15	60.00	100.00		Grass Total	2.11	88.66	100.00	
Lare	.10	40.00	100.00	95	Alte	.01	.42	3.70	5
Forb Total	.10	40.00			Erov	.08	3.36	29.63	10
Grass and					Erpu	.02	.84	7.41	20
Forb Total	.25	100.00			Pefr	.01	.42	3.70	5
					Phho	.11	4.62	40.76	25
					Spco	.01	.42	3.70	10
					Chat	.01	.42	3.70	10
					Depi	.01	.42	3.70	5
					Erce	.01	.42	3.70	10
					Forb Total	.27	11.34	100.00	
					Grass and				
					Forb Total	2.38	100.00		





POWDER RIM ALLOTMENT - PASTURE B

C1-1

C2-1

Atga Type  
0 slope

Artr-Agsm Type  
S exp., 1.5° slope

20 June 1968

20 June 1968

	Cover %	Comp. % all G & F	Comp. % by Group	% Freq.		Cover %	Comp. % all G & F	Comp. % by Group	% Freq.
Atga	15.68			90	Artr	10.25			65
Save	.10			5	Eula	.03			5
Shrub Total	15.78				Shrub Total	10.28			
Orhy	.13	40.62	54.17	10	Agsm	1.51	51.37	55.71	90
Pose	.06	18.75	25.00	15	Pose	.15	5.10	5.54	40
Sihy	.05	15.63	20.83	5	Stco	1.05	35.71	38.75	45
Grass Total	.24	75.00	100.00		Grass Total	2.71	92.18	100.00	
Lare	.08	25.00	100.00	80	Alte	.01	.34	4.35	5
Forb Total	.08	25.00	100.00		Eren	.01	.34	4.35	5
Grass and Forb Total	.32	100.00			Erov	.12	4.08	52.17	25
					Erpu	.01	.34	4.35	5
					Pefr	.01	.34	4.35	5
					Phho	.03	1.02	13.04	30
					Phlo	.03	1.02	13.04	25
					Spco	.01	.34	4.35	10
					Forb Total	.23	7.82	100.00	
					Grass and Forb Total	2.94	100.00		





POWDER RIM ALLOTMENT - PASTURE B

C3-1

Chgr-Orhy Type  
NE exp., 1.75° slope

29 July 1967

C4-1

Artr-Cafi Type  
S SW exp., 4° slope

29 July 1967

	Cover %	Comp. % all	Comp. % by	% Freq.		Cover %	Comp. % all	Comp. % by	% Freq.
	Avg.	G & F	Group			Avg.	G & F	Group	
Atga	.30			5	Artr	4.45			15
Chgr	1.40			80					
Koam	.04			20	Shrub Total	4.45			
Magl	.71			35					
Shrub Total	2.45				Agsm	.15	3.18	3.28	35
					Cael	.06	1.27	1.31	15
Orhy	.21	55.26	56.76	30	Cafi	2.91	61.66	63.53	70
Pose	.11	28.95	29.73	25	Hija	.28	5.93	6.11	15
Sihy	.05	13.16	13.51	25	Orhy	.03	.64	.66	10
					Stco	1.14	24.15	24.89	65
Grass Total	.37	97.37	100.00		Feoc	.01	.21	.22	10
Phho	.01	2.63	100.00		Grass Total	4.58	97.04	100.00	
Forb Total	.01	2.63	100.00		Ermi	.01	.21	7.14	10
Grass and					Maca	.01	.21	7.14	5
Forb Total	.38	100.00			Phho	.05	1.06	35.72	5
					Spco	.06	1.27	42.86	20
					Toin	.01	.21	7.14	5
					Forb Total	.14	2.96	100.00	
					Grass and				
					Forb Total	4.72	100.00		



POWDER RIM ALLOTMENT - PASTURE B

C3-1

C4-1

Chgr-Orhy Type

Artr-Cafi Type

NE exp., 1.75° slope

S SW exp., 4° slope

20 June 1968

20 June 1968

	Cover %	Comp. % all	Comp. % by	% %		Cover %	Comp. % all	Comp. % by	% %
	Avg.	G & F	Group	Freq.		Avg.	G & F	Group	Freq.
Atga	.26			10	Artr	4.78			20
Chgr	2.91			85	Chna	.01			10
Koam	.04			20					
Magl	.63			35	Shrub Total	4.79			
Shrub Total	3.84				Agsm	.19	3.45	3.56	30
					Cael	.14	2.55	2.62	35
Orhy	.49	54.45	58.34	45	Cafi	3.45	62.74	64.60	70
Pose	.26	28.89	30.95	25	Hija	.23	4.18	4.31	15
Sihiy	.09	10.00	10.71	25	Feoc	.01	.18	.19	5
					Orhy	.05	.91	.94	10
Grass Total	.84	93.34	100.00		Pose	.01	.18	.19	5
					Stco	1.26	22.91	23.59	80
Alte	.01	1.11	16.67	10	Grass Total	5.34	97.10	100.00	
Cybu	.01	1.11	16.67	5					
Phho	.01	1.11	16.67	5	Aspu	.01	.18	6.25	5
Trgy	.01	1.11	16.67	5	Cybu	.01	.18	6.25	5
Lare	.02	2.22	33.32	20	Maca	.01	.18	6.25	5
Forb Total	.06	6.66	100.00		Phho	.03	.55	18.75	5
					Spc	.07	1.27	43.75	5
Grass and					Toin	.01	.18	6.25	5
Forb Total	.90	100.00			Lare	.01	.18	6.25	5
					Oeco	.01	.18	6.25	5
					Forb Total	.16	2.90	100.00	
					Grass and				
					Forb Total	5.50	100.00		





POWDER RIM ALLOTMENT - PASTURE B

C5-1

Artr-Agsp Type  
N exp., 3° slope

30 July 1967

C6-1

Artr-Agsm Type  
N NW exp., 0.5° slope

10 Aug. 1967

	Cover %	Comp. % all G & F	Comp. % by Group	% Freq.		Cover %	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	.15			5	Artr	14.03			65
Atco	.28			25	Chvi	.03			5
Chvi	.26			20					
Eula	.30			10	Shrub Total	14.06			
Shrub Total	.99				Agsm	.99	58.92	70.22	100
Agsm	.85	19.63	20.53	30	Orhy	.33	19.64	23.40	20
Agsp	2.71	62.58	65.45	60	Pose	.09	5.36	6.38	20
Cael	.10	2.31	2.42	5	Grass Total	1.41	83.92	100.00	
Kocr	.10	2.31	2.42	10					
Orhy	.15	3.46	3.62	15	Oppo	.10	5.95	37.04	5
Pose	.23	5.31	5.56	45	Erov	.01	.60	3.70	5
Grass Total	4.14	95.60	100.00		Erpu	.01	.60	3.70	10
Assp	.07	1.62	36.84	20	Phho	.10	5.95	37.04	35
Ermi	.06	1.39	31.58	15	Spc	.04	2.38	14.82	20
Phho	.06	1.39	31.58	10	Chat	.01	.60	3.70	5
Forb Total	.19	4.40	100.00		Forb Total	.27	16.08	100.00	
Grass and Forb Total	4.33	100.00			Grass and Forb Total	1.68	100.00		





POWDER RIM ALLOTMENT - PASTURE B

C5-1

Artr-Agsp Type  
N exp., 3° slope

21 June 1968

C6-1

Artr-Agsm Type  
N NW exp., 0.5° slope

20 June 1968

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	.50			5	Artr	15.75			65
Atco	.41			20	Chvi	.05			5
Chvi	.43			15					
Eula	.60			10	Shrub Total	15.80			
Shrub Total	1.94				Agsm	1.01	54.29	60.84	100
Agsm	1.13	26.46	27.70	30	Orhy	.53	28.49	31.93	30
Agsp	2.41	56.46	59.06	60	Pose	.11	5.91	6.63	25
Kocr	.15	3.51	3.68	15	Sihy	.01	.54	.60	5
Orhy	.13	3.04	3.19	20	Grass Total	1.66	89.23	100.00	
Pose	.26	6.09	6.37	65					
Grass Total	4.08	95.56	100.00		Alte	.02	1.08	10.00	15
Arabis spp.	.01	.23	5.26	5	Erov	.01	.54	5.00	5
Assp	.05	1.17	26.32	25	Erpu	.02	1.08	10.00	15
Ermi	.04	.94	21.05	20	Oppo	.05	2.69	25.00	5
Erpu	.03	.70	15.79	25	Phho	.07	3.76	35.00	50
Phho	.05	1.17	26.32	25	Spco	.02	1.08	10.00	15
Lare	.01	.23	5.26	10	Lare	.01	.54	5.00	5
Forb Total	.19	4.44	100.00		Forb Total	.20	10.77	100.00	
Grass and Forb Total	4.27	100.00			Grass and Forb Total	1.86	100.00		



POWDER RIM ALLOTMENT - PASTURE B

C7-1

Arpe Type  
W exp., 0.5° slope

10 Aug. 1967

C8-1

Artr-Agsm Type  
S exp., 3° slope

11 Aug. 1967

	Cover %	Comp. % all G & F	Comp. % by Group	% Freq.		Cover %	Comp. % all G & F	Comp. % by Group	% Freq.
Arpe	4.35			90	Artr	10.45			55
Atga	.16			10					
Chgr	3.04			80	Shrub Total	10.45			
Shrub Total	7.55				Agsm	2.58	82.69	93.82	100
Agsm	.04	4.44	7.27	15	Orhy	.10	3.21	3.64	5
Orhy	.06	6.67	10.91	15	Pose	.04	1.28	1.45	15
Pose	.35	38.89	63.64	65	Sihy	.03	.96	1.09	5
Sihy	.10	11.11	18.18	50	Grass Total	2.75	88.14	100.00	
Grass Total	.55	61.11	100.00		Crfc	.03	.96	8.11	10
Eren	.02	2.22	5.71	15	Phho	.14	4.49	37.83	25
Pefr	.01	1.11	2.86	10	Phlo	.13	4.17	35.14	85
Phho	.32	35.56	91.43	85	Cora	.06	1.92	16.22	55
Forb Total	.35	38.89	100.00		Chat	.01	.32	2.70	5
Grass and Forb Total	.90	100.00			Forb Total	.37	11.86	100.00	
					Grass and Forb Total	3.12	100.00		





POWDER RIM ALLOTMENT - PASTURE B

C7-1

Arpe Type  
W exp., 0.5° slope

20 June 1968

C8-1

Artr-Agsm Type  
S exp., 3° slope

20 June 1968

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Arpe	5.13			90	Artr	10.50			55
Atga	.16			10					
Chvi	2.76			70	Shrub Total	10.50			
Shrub Total	8.05				Agsm	2.80	84.59	92.72	100
Agsm	.05	5.15	5.95	5	Orhy	.15	4.53	4.97	10
Orhy	.16	16.49	19.05	30	Pose	.04	1.21	1.32	15
Pose	.49	50.53	58.33	65	Sihy	.03	.91	.99	10
Sihy	.14	14.43	16.67	45	Grass Total	3.02	91.24		
Grass Total	.84	86.60	100.00		Alte	.01	.30	3.45	10
Eren	.02	2.06	15.38	15	Crfc	.01	.30	3.45	5
Pefr	.01	1.03	7.69	10	Phho	.09	2.72	31.03	30
Phho	.10	10.31	76.93	60	Phlo	.13	3.93	44.83	90
Forb Total	.13	13.40	100.00		Sein	.03	.91	10.34	10
Grass and Forb Total	.97	100.00			Cora	.02	.60	6.90	20
					Forb Total	.29	8.76	100.00	
					Grass and Forb Total	3.31	100.00		

1-80

I-70

2 exp., 30 slope  
Artr-Agma Type

W exp., 0.50 slope

20 June 1968

50 June 1968

Forb Total		Grass and		Forb Total		Grass and	
.97 100.00		3.31 100.00		.29 100.00		8.76 100.00	
Forb Total	.13	Forb Total	.13	Forb Total	.29	Forb Total	.29
Phlo	.10	Phlo	.10	Phlo	.03	Phlo	.03
Petr	.01	Petr	.01	Sein	.03	Sein	.03
Eren	.02	Eren	.02	Grfc	.01	Grfc	.01
Grass Total	.84	Grass Total	.84	Alte	.01	Alte	.01
Stly	.14	Stly	.14	Grass Total	.30	Grass Total	.30
Pose	.49	Pose	.49	Stly	.03	Stly	.03
Orhy	.16	Orhy	.16	Pose	.04	Pose	.04
Agam	.02	Agam	.02	Orhy	.15	Orhy	.15
Shrub Total	8.02	Shrub Total	8.02	Agam	2.80	Agam	2.80
Chvi	2.76	Chvi	2.76	Shrub Total	10.20	Shrub Total	10.20
Atga	.16	Atga	.16	Artr	10.20	Artr	10.20
Arpe	2.13	Arpe	2.13				



POWDER RIM ALLOTMENT - PASTURE B

C9-1

C10-1

Artr-Agsm Type  
NE exp., 2° slope

Artr-Agsm Type  
SW exp., 0.25° slope

21 Aug. 1967

23 Aug. 1967

	Cover %	Comp. % all	Comp. % by	% %		Cover %	Comp. % all	Comp. % by	% %
	Avg.	G & F	Group	Freq.		Avg.	G & F	Group	Freq.
Artr	8.40			60	Artr	9.45			45
Atga	.95			10					
Koam	.01			10	Shrub Total	9.45			
Shrub Total	9.36				Agsm	.65	36.31	84.42	75
Agsm	.62	49.60	63.93	75	Pose	.04	2.23	5.19	35
Orhy	.13	10.40	13.40	10	Sihy	.03	1.68	3.90	5
Pose	.15	12.00	15.46	50	Stco	.05	2.79	6.49	5
Sihy	.01	.80	1.03	5	Grass Total	.77	43.01	100.00	
Stco	.05	4.00	5.15	5	Arabis spp.	.01	.56	.98	5
Feoc	.01	.80	1.03	5	Aspu	.01	.56	.98	5
Grass Total	.97	77.60	100.00		Erov	.15	8.38	14.71	30
Arabis spp.	.01	.80	3.57	5	Erpu	.06	3.35	5.88	55
Crepis spp.	.01	.80	3.57	10	Haac	.59	32.97	57.84	35
Erpu	.02	1.60	7.14	15	Phho	.20	11.17	19.61	60
Oppo	.03	2.40	10.71	5	Forb Total	1.02	56.99	100.00	
Phho	.18	14.40	64.30	40	Grass and				
Alde	.01	.80	3.57	10	Forb Total	1.79	100.00		
Lare	.01	.80	3.57	5					
Unid.	.01	.80	3.57	5					
Forb Total	.28	22.40	100.00						
Grass and									
Forb Total	1.25	100.00							



POWDER RIM ALLOTMENT - PASTURE B

C9-1

C10-1

Artr-Agsm Type  
NE exp., 2° slope

Artr-Agsm Type  
SW exp., 0.25° slope

23 June 1968

21 June 1968

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	9.75			50	Artr	11.13			50
Atco	.85			15	Atco	.05			5
Koam	.01			5					
Shrub Total	10.61				Shrub Total	11.18			
Agsm	.68	54.40	66.67	70	Agsm	.81	39.90	76.42	70
Orhy	.13	10.40	12.75	10	Pose	.08	3.94	7.55	40
Pose	.12	9.60	11.76	55	Sihiy	.07	3.45	6.60	25
Sihiy	.01	.80	.98	5	Stco	.10	4.93	9.43	5
Stco	.08	6.40	7.84	10	Grass Total	1.06	52.22	100.00	
Grass Total	1.02	81.60	100.00		Alte	.02	.99	2.06	20
Arabis spp.	.01	.80	4.35	5	Arabis spp.	.01	.49	1.03	10
Crepis spp.	.01	.80	4.35	10	Erov	.17	8.37	17.53	55
Erpu	.02	1.60	8.70	20	Erpu	.07	3.45	7.22	65
Oppo	.06	4.80	26.09	10	Haac	.41	20.20	42.27	50
Phho	.07	5.60	30.41	50	Pefr	.01	.49	1.03	10
Spco	.01	.80	4.35	5	Phho	.22	10.84	22.68	80
Trgy	.01	.80	4.35	10	Spco	.01	.49	1.03	5
Alde	.01	.80	4.35	5	Cora	.04	1.97	4.12	35
Lare	.02	1.60	8.70	15	Lare	.01	.49	1.03	5
Unid.	.01	.80	4.35	5	Forb Total	.97	47.78	100.00	
Forb Total	.23	18.40	100.00		Grass and Forb Total	2.03	100.00		
Grass and Forb Total	1.25	100.00							





POWDER RIM ALLOTMENT - PASTURE C

C1-1

C2-1

Artr-Agsm Type  
E NE exp., 1.5° slope

Artr-Agsm Type  
S SW exp., 2° slope

10 Aug. 1967

8 Aug. 1967

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	6.88			55	Artr	13.06			75
Chvi	.35			5	Atco	.11			10
Eula	.01			5	Atga	1.28			20
Koam	.01			5	Chvi	.16			10
Shrub Total	7.25				Shrub Total	14.61			
Agsm	.29	23.96	29.59	75	Agsm	.01	1.32	2.17	5
Orhy	.29	23.96	29.59	35	Orhy	.38	50.00	82.61	15
Pose	.21	17.35	21.43	45	Sihi	.01	1.32	2.17	5
Sihi	.18	14.88	18.37	25	Brte	.04	5.25	8.70	40
Brte	.01	.83	1.02	5	Feoc	.02	2.63	4.35	15
Grass Total	.98	80.98	100.00		Grass Total	.46	60.52	100.00	
Arabis spp.	.01	.83	4.35	5	Eren	.05	6.57	16.67	30
Eren	.07	5.79	30.43	50	Erov	.15	19.73	50.00	5
Erov	.01	.83	4.35	5	Pefr	.01	1.32	3.33	5
Pefr	.02	1.65	8.70	20	Phho	.03	3.95	10.01	5
Phlo	.01	.83	4.35	5	Alde	.01	1.32	3.33	5
Phho	.08	6.61	34.77	40	Cram	.01	1.32	3.33	5
Trgy	.01	.83	4.35	5	Erce	.02	2.63	6.67	20
Lare	.02	1.65	8.70	15	Gisi	.01	1.32	3.33	5
Forb Total	.23	19.02	100.00		Lare	.01	1.32	3.33	10
Grass and Forb Total	1.21	100.00			Forb Total	.30	39.48	100.00	
					Grass and Forb Total	.76	100.00		





## POWDER RIM ALLOTMENT - PASTURE C

C1-1

C2-1

Artr-Agsm Type  
E NE exp., 1.5° slope

Artr-Agsm Type  
S SW exp., 2° slope

26 June 1968

26 June 1968

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	8.20			50	Artr	12.13			80
Chvi	.16			10	Atco	.13			10
Eula	.03			5	Atga	1.38			20
Koam	.01			5	Chvi	.15			5
Shrub Total	8.40				Shrub Total	13.79			
Agsm	.34	29.32	38.21	75	Orhy	.13	34.22	59.09	10
Orhy	.23	19.83	25.84	55	Sihy	.01	2.63	4.55	5
Pose	.17	14.66	19.10	40	Brte	.06	15.79	27.27	55
Sihy	.14	12.07	15.73	25	Feoc	.02	5.26	9.09	15
Brte	.01	.86	1.12	5	Grass Total	.22	57.90	100.00	
Grass Total	.89	76.74	100.00		Arabis spp.	.01	2.63	6.25	5
Alte	.01	.86	3.70	10	Eren	.01	2.63	6.25	30
Arabis spp.	.01	.86	3.70	5	Erov	.10	26.32	62.50	5
Crepis spp.	.01	.86	3.70	10	Phlo	.01	2.63	6.25	5
Eren	.04	3.45	14.81	40	Phho	.01	2.63	6.25	5
Pefr	.02	1.72	7.41	15	Lare	.01	2.63	6.25	5
Phlo	.02	1.72	7.41	15	Lepu	.01	2.63	6.25	5
Phho	.09	7.76	33.35	45	Forb Total	.16	42.10	100.00	
Toin	.01	.86	3.70	10	Grass and Forb Total	.38	100.00		
Trgy	.03	2.59	11.11	30					
Cora	.02	1.72	7.41	15					
Lare	.01	.86	3.70	5					
Forb Total	.27	23.26	100.00						
Grass and Forb Total	1.16	100.00							



POWDER RIM ALLOTMENT - PASTURE C

C2-2

C3-1

Artr-Agsm Type  
S SW exp., 2.5° slope

Artr-Cael Type  
S SW exp., 1° slope

8 Aug. 1967

10 Aug. 1967

	Cover %	Comp. % all	Comp. % by	% %		Cover %	Comp. % all	Comp. % by	% %
	Avg.	G & F	Group	Freq.		Avg.	G & F	Group	Freq.
Artr	8.61			60	Artr	10.81			70
Atco	.21			15					
Atga	.90			5	Shrub Total	10.81			
Chvi	1.00			15					
Shrub Total	10.72				Cael	.61	34.50	51.25	50
Agsm	.63	41.45	75.00	50	Orhy	.15	8.47	12.61	10
Orhy	.03	1.97	3.57	10	Pose	.18	10.17	15.13	50
Sihy	.11	7.24	13.10	20	Sihy	.03	1.69	2.52	10
Stco	.04	2.63	4.76	15	Stco	.19	10.73	15.97	35
Feoc	.03	1.97	3.57	25	Brte	.03	1.69	2.52	25
Grass Total	.84	55.26	100.00		Grass Total	1.19	67.25	100.00	
Aspu	.01	.66	1.47	5	Arabis spp.	.01	.56	1.72	5
Eren	.04	2.63	5.88	35	Eren	.05	2.82	8.62	45
Erov	.05	3.29	7.35	5	Oppo	.10	5.65	17.24	5
Oppo	.45	29.60	66.19	10	Phho	.39	22.04	67.26	25
Phho	.01	.66	1.47	10	Spco	.01	.56	1.72	5
Alde	.05	3.29	7.35	45	Lare	.01	.56	1.72	10
Depi	.01	.66	1.47	5	Unk.	.01	.56	1.72	5
Erce	.01	.66	1.47	5	Forb Total	.58	32.75	100.00	
Gisi	.02	1.32	2.94	20	Grass and				
Lare	.03	1.97	4.41	25	Forb Total	1.77	100.00		
Forb Total	.68	44.74	100.00						
Grass and									
Forb Total	1.52	100.00							





POWDER RIM ALLOTMENT - PASTURE C

C2-2

C3-1

Artr-Agsm Type  
S SW exp., 2.5° slope

Artr-Cael Type  
S SW exp., 1° slope

26 June 1968

26 June 1968

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	8.68			65	Artr	7.70			60
Atco	.18			15					
Atga	1.00			5	Shrub Total	7.70			
Chvi	.10			5					
Shrub Total	9.96				Cael	.59	41.24	50.87	50
					Orhy	.06	4.20	5.17	15
Agsm	.84	55.25	70.60	55	Pose	.30	20.98	25.86	65
Orhy	.11	7.24	9.24	20	Stco	.19	13.29	16.38	30
Pose	.01	.66	.84	10	Brte	.02	1.40	1.72	15
Sihy	.10	6.58	8.40	30	Grass Total	1.16	81.11	100.00	
Stco	.06	3.95	5.04	10					
Brte	.03	1.97	2.52	10	Alte	.01	.70	3.70	10
Feoc	.04	2.63	3.36	40	Arabis spp.	.01	.70	3.70	5
Grass Total	1.19	78.28	100.00		Eren	.03	2.10	11.11	30
					Phho	.19	13.29	70.39	20
Eren	.03	1.97	9.09	30	Spco	.01	.70	3.70	5
Erov	.06	3.95	18.18	10	Alde	.01	.70	3.70	5
Oppo	.15	9.87	45.46	10	Lare	.01	.70	3.70	10
Alde	.05	3.29	15.15	45	Forb Total	.27	18.89	100.00	
Cram	.01	.66	3.03	5					
Gisi	.01	.66	3.03	5	Grass and				
Lare	.02	1.32	6.06	15	Forb Total	1.43	100.00		
Forb Total	.33	21.72	100.00						
Grass and									
Forb Total	1.52	100.00							





POWDER RIM ALLOTMENT - PASTURE C

C4-1

Artr-Stco Type  
S exp., 1° slope

11 Aug. 1967

C5-1

Artr-Stco Type  
S exp., 1.5° slope

12 Aug. 1967

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	13.13			55	Artr	14.30			70
Atga	.88			25					
Chvi	.10			5	Shrub Total	14.30			
Shrub Total	14.11				Agsm	.16	9.09	14.80	30
Agsm	.10	6.33	7.04	30	Orhy	.01	.57	.93	10
Orhy	.25	15.82	17.61	10	Pose	.03	1.70	2.78	5
Pose	.02	1.26	1.41	15	Sihy	.10	5.68	9.26	40
Sihy	.16	10.13	11.27	25	Stco	.77	43.75	71.30	75
Stco	.83	52.54	58.44	60	Feoc	.01	.57	.93	5
Feoc	.06	3.80	4.23	60	Grass Total	1.08	61.36	100.00	
Grass Total	1.42	89.88	100.00		Eren	.02	1.14	2.94	20
Oppo	.10	6.33	62.50	5	Erov	.01	.57	1.47	5
Alde	.05	3.16	31.25	50	Oppo	.40	22.73	58.83	5
Lare	.01	.63	6.25	5	Phho	.21	11.93	30.88	30
Forb Total	.16	10.12	100.00		Spco	.01	.57	1.47	10
Grass and					Alde	.03	1.70	4.41	30
Forb Total	1.58	100.00			Forb Total	.68	38.64	100.00	
					Grass and				
					Forb Total	1.76	100.00		



POWDER RIM ALLOTMENT - PASTURE C

C4-1

Artr-Stco Type  
S exp., 1° slope

26 June 1968

C5-1

Artr-Stco Type  
S exp., 1.5° slope

26 June 1968

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	12.38			50	Artr	18.35			75
Atco	.10			5					
Chvi	.31			20	Shrub Total	18.35			
Shrub Total	12.79				Agsm	.16	17.20	27.59	30
Agsm	.08	5.30	5.63	30	Orhy	.01	1.08	1.72	10
Orhy	.33	21.85	23.24	15	Sihy	.14	15.05	24.14	30
Pose	.09	5.96	6.34	30	Stco	.25	26.88	43.10	65
Sihy	.18	11.92	12.68	25	Feoc	.02	2.15	3.45	15
Stco	.71	47.05	50.00	55	Grass Total	.58	62.36	100.00	
Feoc	.03	1.97	2.11	25	Arabis spp.	.01	1.08	2.86	5
Grass Total	1.42	94.05	100.00		Eren	.03	3.23	8.57	25
Arabis spp.	.01	.66	11.11	5	Erov	.04	4.30	11.43	15
Alde	.06	3.97	66.67	55	Oppo	.10	10.74	28.57	5
Gara	.02	1.32	22.22	15	Phho	.06	6.45	17.14	20
Forb Total	.09	5.95	100.00		Spco	.02	2.15	5.71	15
Grass and Forb Total	1.51	100.00			Toin	.05	5.38	14.29	5
					Trgy	.01	1.08	2.86	10
					Alde	.01	1.08	2.86	10
					Gara	.02	2.15	5.71	15
					Forb Total	.35	37.64	100.00	
					Grass and Forb Total	.93	100.00		





POWDER RIM ALLOTMENT - PASTURE C

C6-1

Artr-Agsm Type  
SW exp., 4° slope

12 Aug. 1967

	Cover %	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	8.30			50
Atco	3.05			15
Chvi	.37			35
Tenu	.05			5
Shrub Total	11.77			
Agsm	.66	54.09	61.10	65
Hija	.15	12.30	13.89	5
Orhy	.24	19.67	22.22	30
Stco	.01	.82	.93	5
Brte	.01	.82	.93	5
Feoc	.01	.82	.93	10
Grass Total	1.08	88.52	100.00	
Arabis spp.	.02	1.64	14.29	15
Eren	.01	.82	7.14	5
Ermi	.01	.82	7.14	10
Erov	.02	1.64	14.29	15
Maca	.01	.82	7.14	10
Alde	.01	.82	7.14	5
Asge	.01	.82	7.14	10
Cram	.01	.82	7.14	10
Erce	.02	1.64	14.30	15
Gisi	.01	.82	7.14	5
Oeco	.01	.82	7.14	10
Forb Total	.14	11.48	100.00	
Grass and Forb Total	1.22	100.00		





## POWDER RIM ALLOTMENT - PASTURE C

C6-1

Artr-Agsm Type  
SW exp., 4° slope

6 July 1968

	Cover %	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	7.63			50
Atco	.10			10
Chvi	1.05			25
Tenu	.05			5
Shrub Total	8.83			
Agsm	.52	47.72	52.53	65
Hija	.03	2.75	3.03	5
Orhy	.38	34.86	38.38	40
Pose	.01	.92	1.01	5
Sihy	.01	.92	1.01	5
Stco	.03	2.75	3.03	10
Brte	.01	.92	1.01	5
Grass Total	.99	90.84	100.00	
Eren	.02	1.83	20.00	15
Ermi	.01	.92	10.00	5
Erov	.02	1.83	20.00	15
Maca	.02	1.83	20.00	15
Alde	.02	1.83	20.00	15
Lare	.01	.92	10.00	5
Forb Total	.10	9.16	100.00	
Grass and Forb Total	1.09	100.00		



## POWDER RIM ALLOTMENT - PASTURE D

C1-1

Artr-Eula-Agsm Type  
E exp., 3° slope

10 Aug. 1967

C2-1

Artr-Agsm Type  
S exp., 4° slope

10 Aug. 1967

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	1.30			15	Artr	3.71			35
Atga	.15			5	Atco	2.00			5
Chgr	.02			20	Atga	.01			5
Eula	1.39			40					
Shrub Total	2.86				Shrub Total	5.72			
Agsm	.82	45.04	48.81	95	Agsm	.50	22.12	26.88	100
Orhy	.59	32.42	35.12	55	Orhy	.05	2.21	2.69	5
Pose	.27	14.84	16.07	55	Pofe	.43	19.03	23.12	50
Grass Total	1.68	92.30	100.00		Pose	.03	1.33	1.61	30
					Stco	.83	36.73	44.62	70
					Feoc	.02	.88	1.08	15
Oppo	.05	2.75	35.71	5	Grass Total	1.86	82.30	100.00	
Phho	.03	1.65	21.43	30					
Chat	.02	1.10	14.29	15	Eren	.07	3.10	17.50	45
Erce	.01	.55	7.14	5	Oppo	.18	7.96	45.00	10
Gisi	.01	.55	7.14	5	Phlo	.01	.44	2.50	10
Lare	.02	1.10	14.29	15	Phho	.07	3.10	17.50	20
Forb Total	.14	7.70	100.00		Spc	.03	1.33	7.50	25
					Alde	.03	1.33	7.50	25
Grass and					Chat	.01	.44	2.50	5
Forb Total	1.82	100.00			Forb Total	.40	17.70	100.00	
					Grass and				
					Forb Total	2.26	100.00		





POWDER RIM ALLOTMENT - PASTURE D

C1-1

Artr-Eula-Agsm Type  
E exp., 3° slope

2 July 1968

C2-1

Artr-Agsm Type  
S exp., 4° slope

3 July 1968

	Cover %	Comp. % all G & F	Comp. % by Group	% Freq.		Cover %	Comp. % all G & F	Comp. % by Group	% Freq.
	Avg.					Avg.			
Artr	1.80			55	Artr	3.90			35
Atga	.25			5	Atco	.25			5
Chvi	.05			15					
Eula	1.62			5	Shrub Total	4.15			
Shrub Total	3.72				Agsm	.75	33.04	38.27	100
Agsm	.61	39.35	40.40	95	Orhy	.06	2.64	3.06	10
Kocr	.01	.65	.66	5	Pose	.05	2.20	2.55	30
Orhy	.65	41.94	43.05	75	Stco	1.08	47.59	55.10	90
Pose	.24	15.48	15.89	65	Feoc	.02	.88	1.02	15
Grass Total	1.51	97.42	100.00		Grass Total	1.96	86.35	100.00	
Oppo	.01	.65	25.00	5	Andi	.01	.44	3.23	5
Phho	.03	1.93	75.00	25	Eren	.06	2.64	19.35	55
Forb Total	.04	2.58	100.00		Oppo	.10	4.41	32.24	5
Grass and Forb Total	1.55	100.00			Phlo	.03	1.32	9.68	25
					Phho	.02	.88	6.45	20
					Spco	.03	1.32	9.68	30
					Trgy	.01	.44	3.23	5
					Alde	.01	.44	3.23	5
					Oeco	.01	.44	3.23	5
					Plpa	.03	1.32	9.68	25
					Forb Total	.31	13.65	100.00	
					Grass and Forb Total	2.27	100.00		





POWDER RIM ALLOTMENT - PASTURE D

C3-1

Artr-Agsm Type  
E NE exp., 1.5° slope

11 Aug. 1967

C4-1

Save-Arsp Type  
E exp., 0.25° slope

11 Aug. 1967

	Cover %	Comp. % all G & F	Comp. % by Group	% Freq.		Cover %	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	16.25			65	Arfr	1.13			25
Chgr	.05			5	Arsp	.33			45
Shrub Total	16.30				Atga	2.16			25
Agsm	1.02	78.45	85.72	90	Chvi	.03			5
Pose	.13	10.00	10.92	45	Koam	.21			60
Sihy	.03	2.31	2.52	5	Save	.28			15
Stco	.01	.77	.84	10	Shrub Total	4.14			
Grass Total	1.19	91.53	100.00		Agsm	.03	1.15	37.50	5
Alte	.01	.77	9.09	5	Pose	.05	1.92	62.50	5
Eren	.02	1.54	18.18	15	Grass Total	.08	3.07	100.00	
Erov	.06	4.62	54.55	10	Eren	.01	.38	.40	10
Phlo	.02	1.54	18.18	15	Oppo	2.28	87.36	90.10	30
Forb Total	.11	8.47	100.00		Sude	.01	.38	.40	5
Grass and					Alde	.04	1.53	1.58	35
Forb Total	1.30	100.00			Gisi	.01	.38	.40	5
					Lare	.03	1.15	1.19	30
					Unk.	.15	5.75	5.93	65
					Forb Total	2.53	96.93	100.00	
					Grass and				
					Forb Total	2.61	100.00		



POWDER RIM ALLOTMENT - PASTURE D

C3-1

Artr-Agsm Type  
E NE exp., 1.5° slope

2 July 1968

C4-1

Save-Arsp Type  
E exp., 0.25° slope

3 July 1968

	Cover %	Comp. % all G & F	Comp. % by Group	% Freq.		Cover %	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	16.25			65	Arfr	.40			20
Chvi	.10			5	Arsr	.60			50
					Atga	1.63			15
Shrub Total	16.35				Chvi	.20			5
					Koam	.11			50
Agsm	1.42	85.02	92.81	95	Save	.20			10
Pose	.07	4.19	4.58	45					
Sihy	.03	1.80	1.96	5	Shrub Total	3.14			
Stco	.01	.60	.65	5					
					Agsm	.05	4.17	35.72	5
Grass Total	1.53	91.61	100.00		Pose	.08	6.67	57.14	15
					Sihy	.01	.83	7.14	5
Alte	.01	.60	7.14	10					
Eren	.02	1.20	14.29	20	Grass Total	.14	11.67	100.00	
Erov	.03	1.80	21.43	5					
Phlo	.05	2.99	35.72	30	Alte	.01	.83	.94	5
Phho	.01	.60	7.14	5	Oppo	.88	73.34	83.03	25
Trgy	.01	.60	7.14	10	Sude	.01	.83	.94	5
Alde	.01	.60	7.14	5	Alde	.06	5.00	5.66	60
					Atwo	.09	7.50	8.49	50
Forb Total	.14	8.39	100.00		Lare	.01	.83	.94	10
Grass and					Forb Total	1.06	88.33	100.00	
Forb Total	1.67	100.00							
					Grass and				
					Forb Total	1.20	100.00		





POWDER RIM ALLOTMENT - PASTURE D

C5-1

Artr-Agsm Type  
0 slope

9 Aug. 1967

C5-2

Artr-Atga-Agsm Type  
SW exp., 2.25° slope

9 Aug. 1967

	Cover %	Comp. % all G & F	Comp. % by Group	% Freq.		Cover %	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	17.43			65	Artr	1.15			20
Atco	.55			15	Atco	1.75			5
Shrub Total	17.98				Atga	.82			45
					Tenu	.01			5
Agsm	1.29	50.79	68.26	80	Shrub Total	3.73			
Orhy	.31	12.20	16.40	10	Agsm	2.36	79.46	83.98	75
Pose	.22	8.66	11.64	50	Orhy	.13	4.38	4.63	15
Sihy	.07	2.76	3.70	25	Pose	.24	8.08	8.54	40
Grass Total	1.89	74.41	100.00		Sihy	.08	2.69	2.85	15
Phlo	.01	.39	1.54	10	Grass Total	2.81	94.61	100.00	
Phho	.64	25.20	98.46	50	Pefr	.02	.67	12.50	15
Forb Total	.65	25.59	100.00		Phlo	.02	.67	12.50	15
Grass and					Phho	.10	3.37	62.50	30
Forb Total	2.54	100.00			Cora	.01	.34	6.25	5
					Gisi	.01	.34	6.25	5
					Forb Total	.16	5.39	100.00	
					Grass and				
					Forb Total	2.97	100.00		





POWDER RIM ALLOTMENT - PASTURE D

C5-1

Artr-Agsm Type  
0 slope

2 July 1968

C5-2

Artr-Atga-Agsm Type  
SW exp., 2.25° slope

2 July 1968

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	17.93			70	Artr	2.10			20
Atco	.75			15	Atco	.75			5
Shrub Total	18.68				Atga	.57			40
Agsm	1.39	56.75	63.18	80	Tenu	.03			5
Orhy	.41	16.73	18.64	10	Shrub Total	3.45			
Pose	.20	8.16	9.09	45	Agsm	3.43	85.52	88.40	75
Sihy	.20	8.16	9.09	55	Orhy	.16	3.99	4.12	15
Grass Total	2.20	89.80	100.00		Pose	.23	5.74	5.93	50
Phlo	.03	1.22	12.00	10	Sihy	.06	1.50	1.55	10
Phho	.17	6.94	68.00	60	Grass Total	3.88	96.75	100.00	
Cora	.05	2.04	20.00	45	Alte	.01	.25	7.69	10
Forb Total	.25	10.20	100.00		Pefr	.01	.25	7.69	5
Grass and					Phlo	.03	.75	23.08	25
Forb Total	2.45	100.00			Phho	.04	1.00	30.78	40
					Sili	.02	.50	15.38	20
					Cora	.02	.50	15.38	20
					Forb Total	.13	3.25	100.00	
					Grass and				
					Forb Total	4.01	100.00		



POWDER RIM ALLOTMENT - PASTURE D

C6-1

Artr-Agsm Type  
E exp., 0.5° slope

17 Aug. 1967

C7-1

Juos Type  
S exp., 5.5° slope

19 Aug. 1967

	Cover %	Comp. % all G & F	Comp. % by Group	% Freq.		Cover %	Comp. % all G & F	Comp. % by Group	% Freq.
	Avg.					Avg.			
Artr	12.63			55	Arno	6.51			35
Shrub Total	12.63				Artr	.40			5
Agsm	2.16	76.06	79.70	100	Chvi	.06			10
Kocr	.19	6.69	7.01	25	Juos	13.25			20
Orhy	.05	1.76	1.85	5	Putr	7.28			30
Pose	.28	9.86	10.33	65	Shrub Total	27.50			
Sihy	.03	1.06	1.11	10	Agsm	.51	39.85	45.94	65
Grass Total	2.71	95.43	100.00		Agsp	.43	33.59	38.74	35
Crepis spp.	.01	.35	7.69	10	Kocr	.06	4.69	5.41	10
Eren	.05	1.76	38.47	50	Pofe	.08	6.25	7.21	10
Phlo	.02	.70	15.38	15	Pose	.03	2.34	2.70	5
Phho	.01	.35	7.69	5	Grass Total	1.11	86.72	100.00	
Cora	.03	1.06	23.08	30	Arfe	.08	6.25	47.07	15
Posa	.01	.35	7.69	5	Pefr	.01	.78	5.88	10
Forb Total	.13	4.57	100.00		Cora	.02	1.56	11.76	15
Grass and					Posa	.05	3.91	29.41	50
Forb Total	2.84	100.00			Unk.	.01	.78	5.88	5
					Forb Total	.17	13.28	100.00	
					Grass and				
					Forb Total	1.28	100.00		





POWDER RIM ALLOTMENT - PASTURE D

C6-1

C7-1

Artr-Agsm Type  
E exp., 0.5° slope

Juos Type  
S exp., 5.5° slope

2 July 1968

2 July 1968

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Artr	13.20			55	Arno	5.51			30
Shrub Total	13.20				Artr	3.01			15
Agsm	3.00	75.39	79.78	100	Chvi	.31			10
Kocr	.21	5.28	5.59	25	Juos	12.28			25
Orhy	.03	.75	.80	5	Putr	9.35			30
Pose	.41	10.30	10.90	85	Shrub Total	30.46			
Sihy	.11	2.76	2.93	25	Agsm	1.01	53.72	60.47	65
Grass Total	3.76	94.48	100.00		Agsp	.45	23.94	26.95	25
Alte	.01	.25	4.55	10	Kocr	.08	4.26	4.79	10
Crepis spp.	.01	.25	4.55	10	Orhy	.01	.53	.60	5
Eren	.08	2.01	36.34	75	Pofe	.08	4.26	4.79	10
Phlo	.04	1.01	18.18	35	Pose	.03	1.60	1.80	5
Phho	.01	.25	4.55	5	Sihy	.01	.53	.60	5
Trgy	.03	.75	13.64	25	Grass Total	1.67	88.84	100.00	
Cora	.02	.50	9.09	15	Arfe	.02	1.06	9.52	15
Gisi	.01	.25	4.55	5	Crepis spp.	.01	.53	4.76	5
Lare	.01	.25	4.55	5	Erpu	.05	2.66	23.82	50
Forb Total	.22	5.52	100.00		Pefr	.02	1.06	9.52	15
Grass and Forb Total	3.98	100.00			Phho	.01	.53	4.76	5
					Trgy	.04	2.13	19.05	35
					Cora	.04	2.13	19.05	35
					Lare	.01	.53	4.76	10
					Posa	.01	.53	4.76	5
					Forb Total	.21	11.16	100.00	
					Grass and Forb Total	1.88	100.00		





POWDER RIM ALLOTMENT - PASTURE D

C8-1

C10-1

Atga Type  
S exp., 2.25° slope

Atco Type  
NE exp., 2° slope

19 Aug. 1967

1 Sept. 1967

	Cover %	Comp. % all G & F	Comp. % by Group	% Freq.		Cover %	Comp. % all G & F	Comp. % by Group	% Freq.
	Avg.					Avg.			
Atga	.71			60	Atco	4.16			30
Eula	.30			5	Eula	.86			40
Shrub Total	1.01				Shrub Total	5.02			
Agsm	.14	11.57	11.97	25	Orhy	.08	9.64	11.27	10
Orhy	.41	33.88	35.04	30	Pose	.30	36.16	42.25	50
Pose	.23	19.01	19.66	20	Stco	.31	37.37	43.66	30
Sihy	.39	32.23	33.33	40	Brte	.01	1.20	1.41	10
					Feoc	.01	1.20	1.41	5
Grass Total	1.17	96.69	100.00		Grass Total	.71	85.57	100.00	
Lare	.04	3.31	100.00						
Forb Total	.04	3.31	100.00		Chdo	.01	1.20	8.33	5
					Eren	.01	1.20	8.33	10
Grass and					Alde	.04	4.82	33.35	40
Forb Total	1.21	100.00			Chat	.01	1.20	8.33	5
					Erce	.01	1.20	8.33	5
					Gisi	.01	1.20	8.33	5
					Saka	.03	3.61	25.00	25
					Forb Total	.12	14.43	100.00	
					Grass and				
					Forb Total	.83	100.00		



## POWDER RIM ALLOTMENT - PASTURE D

C8-1

C10-1

Atga Type  
S exp., 2.25° slope

Atco Type  
NE exp., 2° slope

2 July 1968

3 July 1968

	Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.		Cover % Avg.	Comp. % all G & F	Comp. % by Group	% Freq.
Atga	6.58			70	Atco	5.39			40
Shrub Total	6.58				Atga	.01			5
					Eula	.98			35
Agsm	.23	14.94	15.44	15	Shrub Total	6.38			
Orhy	.53	34.42	35.57	35	Orhy	.20	22.47	25.64	20
Pose	.16	10.39	10.74	20	Pose	.24	26.99	30.77	40
Sihy	.57	37.00	38.25	55	Sihy	.03	3.37	3.85	5
Grass Total	1.49	96.75	100.00		Stco	.26	29.22	33.33	30
Lofo	.01	.65	20.00	10	Brte	.04	4.49	5.13	35
Lare	.04	2.60	80.00	35	Feoc	.01	1.12	1.28	5
Forb Total	.05	3.25	100.00		Grass Total	.78	87.66	100.00	
Grass and Forb Total	1.54	100.00			Eren	.01	1.12	9.09	10
					Maca	.01	1.12	9.09	5
					Alde	.04	4.49	36.37	40
					Gisi	.01	1.12	9.09	10
					Lare	.02	2.25	18.18	15
					Plpa	.01	1.12	9.09	10
					Saka	.01	1.12	9.09	10
					Forb Total	.11	12.34	100.00	
					Grass and Forb Total	.89	100.00		



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